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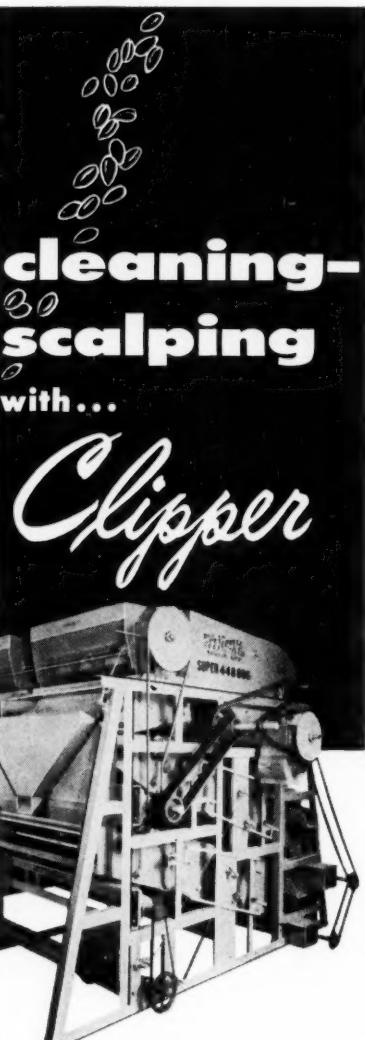
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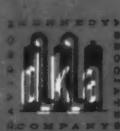
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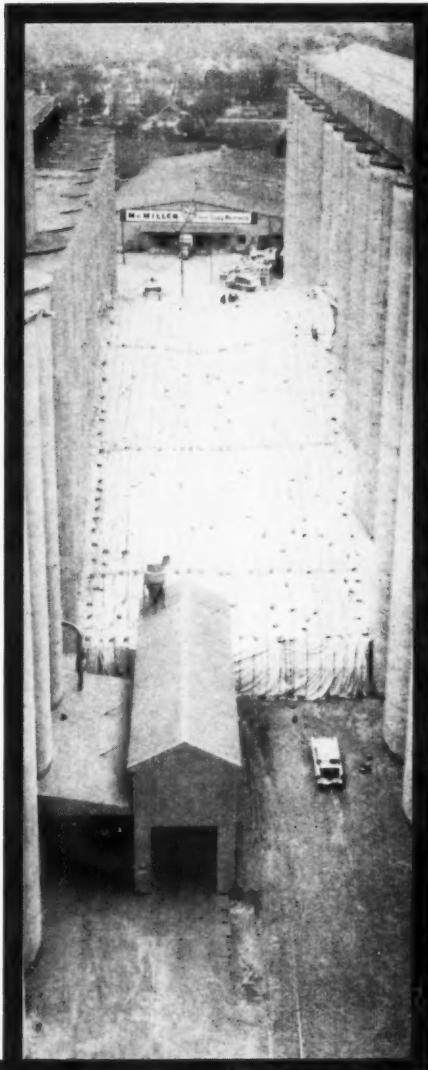
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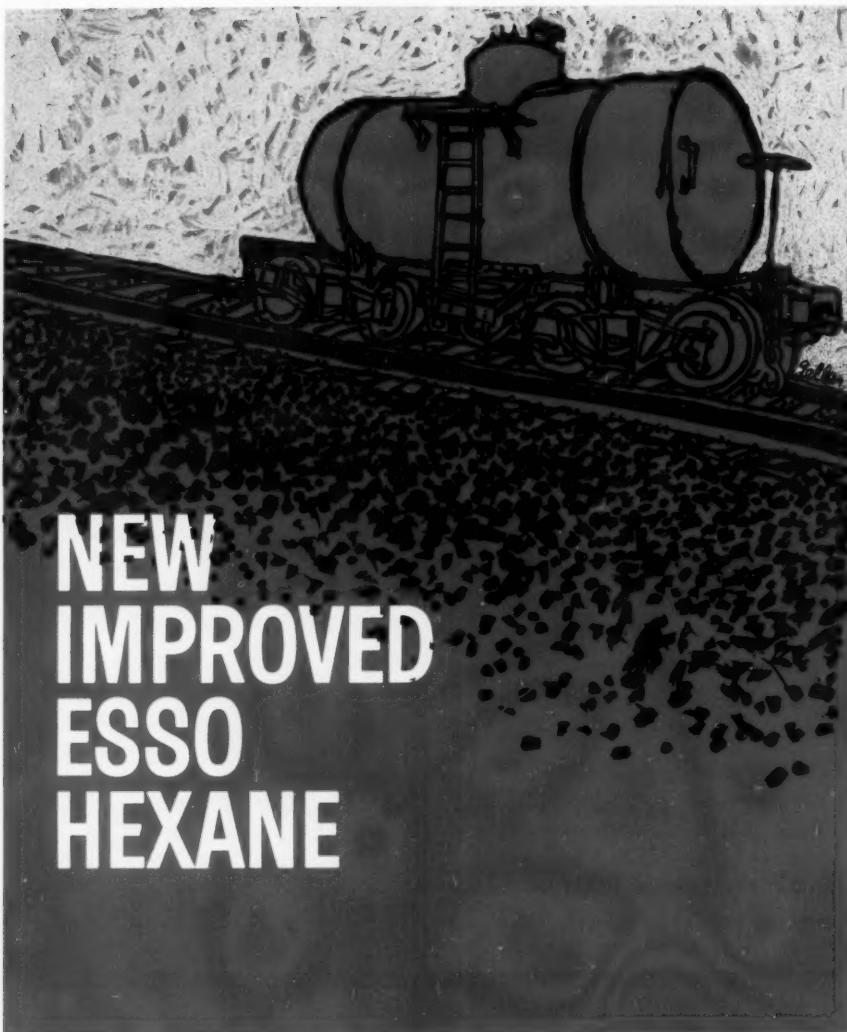
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# AMERICAN SOYBEAN ASSOCIATION

Organized 1920; incorporated February 28, 1946.

Executive office — Hudson, Iowa.

## OFFICERS

President—John Sawyer, London, Ohio.

Vice President—C. G. Simcox, Assumption, Ill.

Executive Vice President and Secretary-Treasurer—Geo. M. Strayer, Hudson, Iowa.

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Minnesota—John W. Evans, Montevideo; Charles V. Simpson, Waterville.

Missouri—O. H. Acom, Wardell.

Ohio—David G. Wing, Mechanicsburg; John Sawyer, London.

Ontario, Canada—A. E. Jolley, Chatham.

## ACTIVITIES

The American Soybean Association is the non-profit organization devoted to the interests of soybean growers and handlers of the nation. Organizational affairs are directed by a board of directors consisting of 15 members chosen by vote from the states where production is heaviest. Board membership is limited to actual producers of soybeans.

Objectives of the American Soybean Association include the bringing together of all persons interested in the production, distribution and utilization of soybeans; the collection and dissemination of the best available information relating to both the practical and scientific phases of the problems of increased yields coupled with lessened costs; the safe-guarding of production against diseases and insect pests; the promotion of the development of new varieties; the encouragement of the interest of federal and state governments and experiment stations; and the rendering of all possible services to the industry.

**FIGHTS YOUR LEGISLATIVE BATTLES.** The American Soybean Association promotes new markets and encourages the expansion of present markets for soybeans and soybean products, counsels with governmental agencies on programs affecting the soybean crop, represents and protects the interests of soybean growers and legislative matters and sponsors and encourages legislation and appropriations for research work

on varieties, diseases, pests, new uses, and on factors limiting or affecting usage of soybean products. Association officers spend large amounts of time representing the interests of soybean growers in Washington and in the state capitals on legislative matters.

**PROMOTES MARKETS** for soybeans and soybean products in the United States and in foreign countries. Constant contacts with export buyers and users serve to encourage and expand export markets for soybeans, soybean oil meal, soybean oil, lecithin and other products. Encouragement and promotion of markets for soybeans and soybean products in industry, human food and in livestock feeding operations are a major project of the Association.

In 1956 the American Soybean Association signed an agreement with the Foreign Agricultural Service of the U. S. Department of Agriculture for a soybean market development project in Japan to be financed by P. L. 480 funds and funds contributed by the soybean industry. The Japanese-American Soybean Institute in Tokyo is the operating agency for this project.

**HOLDS ANNUAL CONVENTIONS** with the nation's outstanding soybean authorities as speakers. Its resolutions adopted there serve as guides for the Association during the year.

**ENCOURAGES YIELD CONTESTS** through which comparisons of growing practices and varieties between counties and states become possible.

**ANSWERS YOUR QUESTIONS.** The executive office of the American Soybean Association at Hudson, Iowa, serves as a clearing house of information for the industry, answering many thousands of questions that come by postcard, letter and telephone each year.

## PUBLICATIONS

**The Soybean Digest** is the only magazine in America devoted to soybeans. Published monthly by the Association it goes to all members of the American Soybean Association. The **Soybean Blue Book** is the annual directory of the industry. **Late News**, Association newsletter carrying the latest crop and market information, is mailed first class to subscribers 32 times yearly.

## MEMBERSHIP

**Active Membership** in the American Soybean Association is open to individuals on payment of annual dues of \$5 and includes subscription to the **Soybean Digest**.

**Associate Membership** is open to business organizations, corporations, partnerships and other agencies interested in the welfare of the soybean industry at a cost of \$10 per year, including one subscription to the **Soybean Digest**.

**Additional copies of the Soybean Blue Book may be purchased from the American Soybean Association, Hudson, Iowa, by members for \$2.**

# NATIONAL SOYBEAN PROCESSORS ASSOCIATION

Organized 1930.

Address—3818 Board of Trade Building, Chicago 4, Ill.

## OFFICERS

President—R. G. Houghtlin.

Secretary—Donald B. Walker.

Treasurer—H. A. Abbott.

Chairman of the Board—M. D. McVay.

Vice Chairman of the Board—Glenn Pogeler.

Regular membership in the National Soybean Processors Association is limited to individuals, firms or corporations regularly engaged in the actual processing of soybeans. The Association now has 65 members who regularly process more than 90% of the soybeans crushed in the United States.

Recently the constitution of the Association was altered to provide for associate memberships. Firms which are consumers of soybean oil and/or soybean oil meal now are eligible for associate membership. A number of refiners and mixed feed manufacturers are now associate members of the Association.

The Association policy is determined by its board of directors who represent all sections of the processing areas and all types of processing units. The 11 committees of the Association carry on the general activities of the group.

Through this organization, equitable trading rules have been developed which have admirably and fairly served the buyers and sellers of soybean products during the years in which the soybean industry has made such remarkable growth.

The intense research activity fostered by the Association and its members has played an

important part in placing the industry on the high plane which it enjoys today. The promotional efforts of the Association and its members have established a place for soybean products in highly competitive fields. Through this research and promotional activity the products of soybeans have become standard essentials in our food, feed and industrial markets.

In March 1948 the Association launched a national soybean crop improvement program with J. W. Calland of Decatur, Ind., as director.

Since the inauguration of the program, some 300,000 copies of the booklet, *Soybean Farming*, have been distributed. The publication is now in its third edition. A publication, *Soybean News*, issued four times a year, is being sent to a mailing list of over 21,000. A recent activity has been the production of a sound color 16-mm movie entitled, *Soybeans—the Feature Story*. This film runs 27 minutes. It is available from the American Soybean Association, Hudson, Iowa, the university film libraries in the principal soybean producing states and from the Modern Talking Picture Service, Inc., 142 E. Ontario St., Chicago 11, Ill. *Soybeans—the Feature Story* is now being produced in black and white for use on television stations and has been viewed by more than 14 million people. Prints for TV showings are available from Modern Talking Picture Service, TV division, 219 E. 44th St., New York 17, N. Y.

Working with the Crop Improvement Council is an advisory board made up of agronomists from 21 of the principal soybean states and two members of the U. S. Regional Soybean Laboratory. This board works closely with the Council in all matters of soybean production research, variety improvement and better cultural practices.

# SOYA FOOD RESEARCH COUNCIL

Organized 1936.

Address—1026 17th St., N. W., Washington 6, D. C.

Chairman—W. R. Eichenberger.

Vice Chairman—J. J. Sellner.

Treasurer—H. A. Olendorf.

Secretary—Douglas Dies.

General Counsel—John D. Conner.

Representing American Soybean Association—Geo. M. Strayer.

This Council, which represents the interests of both the manufacturers of soy food products and the growers of soybeans, is primarily interested in scientific research, new product studies, refinement of methods, and developments of new markets.

During the war and postwar periods, this group was the channel through which the industry assisted the government in bringing about public consciousness of the high food value and comparative low cost of soy protein products. With helpful advice from government technologists, standards were adopted.

At government request substantial increases were made in the industry's productive capacity.

In recent years there has been large usage of soy flour products in various parts of the world. American usage has increased. There has been a growing realization, both in public and in government, that edible soy protein is the key to providing low-cost protein to millions whose diets are dangerously low in proteins.

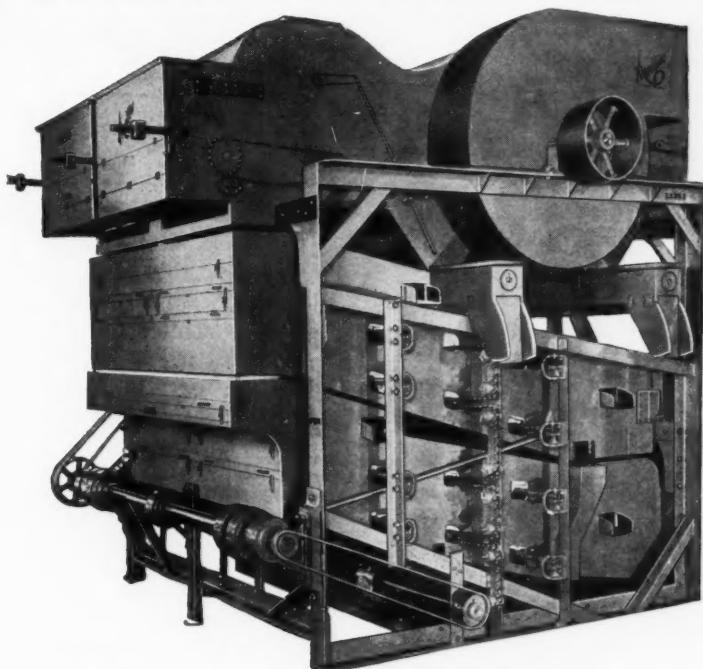
In the past few years various types of scientific research on soy flour have been or are being carried on in the following institutions: University of Illinois, Purdue University, University of Minnesota, Kansas State College, Pittsburgh University, Midwest Laboratories, U. S. Regional Laboratories, and elsewhere.

This work is far more than matched by the studies conducted in the large laboratories of private companies.

Today soy flour is used in many food articles including:

Bakery products, breakfast foods, candies, chocolate, diabetic foods, health drinks, ice cream cones, ice cream powder, infant foods, macaroni and spaghetti products, meat products, prepared mixes and pet foods.

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# SOYBEAN COUNCIL OF AMERICA, INC.

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Address—Hudson, Iowa.

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**Trade development committee**—Dwayne O. Andreas, chairman; Chester B. Biddle; John W. Evans; A. C. Hoehne; Robert B. Jude; E. E. Rhodes; Raymond Barnes; and Ersel Walley, Wally Agricultural Service, 1145 Fairview Ave., Fort Wayne, Ind.

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The Soybean Council of America, Inc., is a non-profit organization representing all branches of the soybean industry including producers, grain dealers, processors, manufacturers, exporters and others interested in soybeans and soybean products.

The Council was organized to further expand the markets for soybeans and soybean products and make them more profitable for everybody through education, research and promotion.

The Council, in cooperation with the Foreign Agricultural Service of the U. S. Department of Agriculture, now has active market development projects for soybeans and soybean products in Spain, Italy, Israel, and Germany.

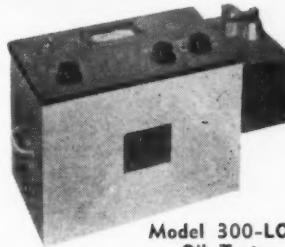
Industry leaders from these countries are being brought to the United States to study various phases of the U. S. soybean industry. Many other market development projects are under consideration for other countries — including Austria, Greece, Central and South America, and Asia. Programs in some of these countries will be put into effect shortly. The Council is making intensive surveys of the market potentials for U. S. soybean products in many parts of the world.

The Soybean Council's activities in the home market include studies to improve the quality of soybean oil and studies of the place of fats and oils in human nutrition. It is also working on the standardization of soy flour and a high protein bread to be made with soy flour.

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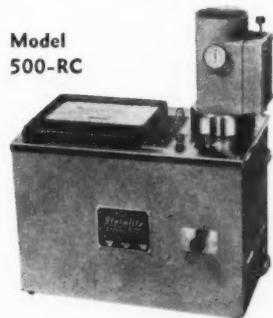


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# JAPANESE AMERICAN SOYBEAN INSTITUTE

Address—Room No. 410, Nikkatsu International Bldg., No. 1, 1-chome Yurakucho, Chiyoda-ku, Tokyo, Japan.

Managing Director—Shizuka Hayashi.

The Japanese American Soybean Institute was formed early in 1956 as the operating agency for the market development project in Japan for soybeans being conducted by the American Soybean Association in cooperation with the Foreign Agricultural Service of the U. S. Department of Agriculture and utilizing P. L. 480 funds and funds contributed by the soybean industry in the United States and Japan.

Purpose of the project is to further the market for American soybeans and soybean products by bringing about a closer understanding between the Japanese and the American soybean industries.

A delegation of Japanese industry leaders toured the United States in August and September 1956 to observe firsthand U. S. soybean production and facilities for handling, processing and exporting soybeans. It is expected that other similar delegations will follow.

A similar American trade group returned the visit in late 1957, making a 3-week tour of the soybean industry in Japan and observing firsthand the problems of Japanese manufacturers in using U. S. soybeans in their food products.

The Institute sponsored exhibits of U. S. soybeans and soybean products at the International Trade Fair in Osaka, Japan, in 1956, in Tokyo in 1957, and Osaka in 1958.

With the Institute's sponsorship, the Food Life Improvement Association, a Japanese government agency under the Ministry of Agriculture, is holding promotional weeks for soybeans and soybean products in various important Japanese cities, with special sales of soybean products during the week.

And also under the Institute's sponsorship the Japan Nutrition Association, another governmental agency, is educating the government nutritionists in 800 public health centers in Japan concerning the nutritional value of soybeans and how to use them more effectively. The nutritionists in turn will give lessons and promote the use of soybean products in meetings with women's and farmers' associations and other consumer groups.

Additional educational and promotional work by the Institute includes participation in public meetings and the utilization of newspapers, magazines and radio, and translation of American soybean literature into the Japanese language.

The Institute in 1957 in cooperation with Agricultural Research Service of the U. S. Department of Agriculture, sent Dr. A. K. Smith, specialist with USDA's Northern Utilization and Development Branch, to Japan in the interest of wider usage of U. S. soybeans in Japanese foods.

Under a cooperative agreement between Agricultural Research Service and Foreign Agricultural

Service of the U. S. Department of Agriculture, and the American Soybean Association, two Japanese scientists began a year's project to search for ways to increase the use of U. S. soybeans in Japanese foods at the Northern Utilization Research and Development Division, Peoria, Ill., in the fall of 1958.

The scientists are Kazuo Shibasaki, Tohoku University, Sendai, Japan; and Tokaji Watanabe, Food Research Institute, Japanese Ministry of Agriculture and Forestry.

The Institute has completed a movie film showing production and consumption of soybeans with emphasis on food uses. And it is cooperating with the University of Kyoto in a research study on the usage of U. S. soybeans in natto.

Starting in May 1958, 12 kitchen cars have been touring Japan and demonstrating the use of soybean and wheat food products, under a joint contract between the Oregon Wheat League and the American Soybean Association. The contract provides that the kitchen car demonstrations, which are made by nutritionists, include recipes to cover at least one product made from wheat and one from soybeans, like soybean oil, miso, natto, tofu or kinako.

The demonstrations have proved to be very popular with Japanese housewives.

# MIDSOUTH SOYBEAN AND GRAIN SHIPPERS ASSOCIATION

Office—Box 692, Blytheville, Ark.

President—Albert R. Cravens, Missouri Soybean Co., Caruthersville, Mo.

Vice President—John Terral, Terral-Norris Seed Co., Lake Providence, La.

Secretary-Treasurer—Paul C. Hughes, Farmers Soybean Corp., Blytheville, Ark.

The Midsouth Soybean and Grain Shippers Association is made up of country shippers in the states of Missouri, Kentucky, Tennessee, Arkansas, Mississippi and Louisiana.

Purpose is to promote the common interests of the members and to bring about a better understanding between all segments of the grain trade in the Midsouth including farmers, country shippers, processors, exporters, and brokers.

## NATIONAL FATS AND OILS BROKERS' ASSOCIATION, INC.

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The National Fats and Oils Brokers' Association is a non-profit corporation formed for the purpose of creating and maintaining a high standard of ethics among commodity brokers and promoting a better relation and understanding between buyer and seller.

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# U. S. DEPARTMENT OF AGRICULTURE

USDA agencies with relationship to soybeans.  
(Washington 25, D. C., unless otherwise noted.)

## AGRONOMIC RESEARCH

Agricultural Research Service

**Crops Research Division.** Oilseed and Industrial Crops Research Branch. Herbert W. Johnson, research agronomist; Warren D. Hanson, geneticist. Beltsville, Md.

**U. S. Regional Soybean Laboratory,** 160 Davenport Hall, Urbana, Ill. J. L. Carter, director.

Staff: Floyd I. Collins, chemist; Orland A. Kruber, chemist; Robert W. Howell, physiologist; Richard L. Bernard, breeder; Calvin R. Mumaw, agronomist; Carolyn Younger, secretary.

### FIELD

Abel, George H., Southwestern Irrigation Field Station, Brawley, Calif.

\*\*Bothun, R. E., Department of Agronomy, Agricultural Experiment Station, Fargo, N. Dak. Brim, Charles A., Dept. of Field Crops, N. C. State College, Raleigh, N. C.

\*\*Brown, H. M., Department of Farm Crops, Agricultural Experiment Station, East Lansing, Mich.

\*\*Brown, Otto, Gulf Coast Substation, Fairhope, Ala.

\*\*Caviness, Charles E., Agricultural Experiment Station, Fayetteville, Ark.

\*\*Franzke, Clifford J., Agricultural Experiment Station, Brookings, S. Dak.

\*\*Gray, John P., Agricultural Experiment Station, Baton Rouge, La.

\*\*Hadley, Henry H., Department of Agronomy, University of Illinois, Urbana, Ill.

\*\*H. B. Harris, Agricultural Experiment Station, Experiment, Ga.

Hartwig, Edgar E., Coordinator for Southern States, Delta Branch Experiment Station, Stoneville, Miss.

Hinson, Kuell, Department of Agronomy, Florida Agricultural Experiment Station, Gainesville, Fla.

\*\*Johnson, Wiley C., Agricultural Experiment Station, Auburn, Ala.

\*\*Kramer, Herbert H., Agricultural Experiment Station, Lafayette, Ind.

\*\*Lambert, Jean W., Agricultural Experiment Station, University Farm, St. Paul, Minn.

\*\*Mader, E. L., Department of Agronomy, Agricultural Experiment Station, Manhattan, Kans.

\*Part time with Soybean Laboratory.

\*\*Collaborator without pay.

\*\*\*Part time with Crops Research Division, A.R.S.

\*\*Matlock, Ralph S., Agricultural Experiment Station, Stillwater, Okla.

\*\*O'Kelly, J. Fred, Agricultural Experiment Station, State College, Miss.

\*\*Paden, William R., Agricultural Experiment Station, Clemson, S. C.

Probst, Albert H., Agricultural Experiment Station, Lafayette, Ind.

\*\*Skold, L. N., Agricultural Experiment Station, Knoxville, Tenn.

\*\*Smith, Paul E., Department of Agronomy, Ohio State University, Columbus 10, Ohio.

\*\*Smith, R. L., North Florida Agricultural Experiment Station, Box 252, Atmore, Fla.

\*\*Smith, T. J., Agricultural Experiment Station, Blacksburg, Va.

\*\*Staten, Raymond D., Agricultural Experiment Station, College Station, Tex.

\*\*Torrie, James H., Dept. of Agronomy, University of Wisconsin, Madison 6, Wis.

Weber, Charles R., Agronomy Bldg., Iowa State College, Ames, Iowa.

\*\*Williams, James H., Agricultural Experiment Station, Lincoln, Nebr.

Williams, Leonard F., Agricultural Experiment Station, Columbia, Mo.

### DISEASE RESEARCH

**Crops Research Division.** Beltsville, Md.: Oilseed and Industrial Crops Research Branch. Herbert W. Johnson.

### FIELD

\*\*\*Athow, Kirk L., Agricultural Experiment Station, Lafayette, Ind.

Chamberlain, Donald W., Regional Soybean Laboratory, Urbana, Ill.

\*\*\*Dunleavy, John, Agricultural Experiment Station, Ames, Iowa.

Jones, John P., Delta Branch Experiment Station, Stoneville, Miss.

Ross, John Paul, Box 5397, State College Station, Raleigh, N. C.

\*\*Schmittner, A. F., Ohio Agricultural Experiment Station, Wooster, Ohio.

\*\*\*Wyllie, Thomas D., Agricultural Experiment Station, University of Minnesota, St. Paul 1, Minn.

### ENTOMOLOGICAL RESEARCH

Entomology Research Division, Beltsville, Md.: E. F. Knipling, director; Cereal and Forage Insects Section, R. G. Dahms.

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## **U. S. DEPARTMENT OF AGRICULTURE—(Continued)**

### **UTILIZATION RESEARCH AND DEVELOPMENT**

**Northern Utilization Research and Development Division**, Peoria, Ill., W. D. Maclay, director; C. E. Rist, assistant director. Oilseeds laboratory, J. C. Cowan, chief; fermentation laboratory, R. W. Jackson, chief; engineering and development laboratory, E. L. Griffin, Jr., acting chief.

**Southern Utilization Research and Development Division**, New Orleans, La., C. H. Fisher, chief.

**Animal husbandry research division**, Beltsville, Md., Ralph E. Hodgson, director; N. R. Ellis, associate director. **Dairy cattle research branch**, Beltsville, Md., Lane A. Moore, chief. **Poultry research branch**, Beltsville, Md., A. W. Brant, chief. **Institute of home economics research branch**, Washington, D. C., Hazel K. Stiebling, director.

### **MARKETING RESEARCH**

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O. V. Wells, administrator; deputy administrator for marketing services, Roy W. Lennartson. Marketing research and statistics, Omer W. Hermann, deputy administrator. Grain division (B.

W. Whitlock, director)—inspection branch, Washington; market news branch, Washington; seed branch, Beltsville; standardization and testing branch, Beltsville. Agricultural economic division (Frederick V. Waugh, director)—statistical and historical research branch (James P. Cavin, chief). Agricultural estimates division (crop reporting board—Sterling R. Newell, director). Marketing research division (Harry C. Trelogan, director)—market development branch (R. M. Walsh chief); transportation and facilities branch (W. C. Crow, chief).

#### **Foreign Agricultural Service**

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# SOYBEAN PRODUCTION-UNITED STATES

Soybeans: Acreage, yield and production in the United States, 1924-58

Year	Acres planted			Acres harv.			Grazed or plowed under			Average yield per acre harv.			Total prod.	
	Grown alone	Inter-planted*	Equivalent solid†	for beans‡	for hay	for beans‡	Bushels	Tons	for beans‡	for hay	Thous. bushels	Thous. tons		
	— Thousand acres —			— Thousand acres —										
1924	1567	417	1782	448	1147	187	11.0	1.13	4947	1299				
25	1539	476	1785	415	1175	195	11.7	1.01	4875	1185				
1930	3072	786	3473	1074	2062	337	13.0	.94	13929	1938				
31	3835	909	4304	1141	2772	391	15.1	1.26	17260	3479				
32	3704	893	4165	1001	2738	426	15.1	1.25	15158	3433				
33	3537	813	3957	1044	2506	407	12.9	1.16	13509	2917				
34	5764	858	6207	1556	4227	424	14.9	1.08	23157	4545				
35	6966	1028	7503	2915	4044	544	16.8	1.34	48901	5422				
36	6127	2115	7183	2359	3116	1708	14.3	.96	33721	3002				
37	6332	2261	7464	2586	3469	1409	17.9	1.36	46164	4731				
38	7318	2541	8587	3035	3724	1828	20.4	1.43	61906	5335				
39	9565	2710	10920	4315	4590	2015	20.9	1.48	90141	6772				
1940	10487	2589	11782	4807	4819	2156	16.2	1.34	78045	6450				
41	10068	2555	11345	5889	3546	1910	18.2	1.30	107197	4616				
42	13696	2426	14912	9894	2621	2397	19.0	1.36	187524	3555				
43	14191	2475	15428	10397	3177	1854	18.3	1.21	190133	3837				
44	13118	1861	14050	10245	2577	1228	18.8	1.18	192121	3040				
45	13056	1505	13807	10740	1940	1127	18.0	1.26	193167	2451				
46	11706	1458	12434	9932	1499	1003	20.5	1.28	203395	1912				
47	13052	1408	13755	11411	1292	1052	16.3	1.22	186451	1574				
48	11987	1259	12617	10682	1111	824	21.3	1.30	227217	1446				
49	11872	1165	12456	10482	1130	844	22.3	1.32	234194	1488				
1950	15048	1184	15640	13807	963	870	21.7	1.31	299249	1260				
51	15176	955	15655	13615	893	1147	20.8	1.24	283777	1110				
52	15958	831	16374	14435	1085	854	20.7	1.10	298839	1191				
53	16394	653	16719	14829	1037	853	18.2	1.09	269169	1134				
54	18541	663	18872	17047	876	949	20.0	1.04	341075	913				
1955	19658	603	19959	18620	711	628	20.1	1.28	373522	910				
56	21471	578	21960	20542	559	759	21.8	1.28	449446	717				
57	21912	475	22149	20826	489	834	23.2	1.28	483715	628				
58§	24900	465	25133	23752	541	840	24.2	1.43	574413	773				

\*Grown with other crops. §Preliminary.

†Equivalent solid acreage (acreage grown alone with an allowance for acreage grown with other crops). ‡Preliminary. Source of data: Agricultural Marketing Service, U. S. Dept. of Agriculture.

Soybean acreage, yield and production in the United States by states, 1958\*

State	Acres planted			Acres harv.			Grazed or plowed under			Average yield per acre harv.			Total prod.	
	Grown alone	Inter-planted	Equivalent solid**	for beans‡	for hay	for beans‡	Bushels	Tons	for beans‡	for hay	Thous. bushels	Thous. tons		
	— Thousand acres —			— Thousand acres —										
N. Y.	7	—	7	6	—	1	17.0	—	102	—	—	—		
N. J.	50	—	50	45	1	4	25.0	1.50	1125	—	2	—		
Pa.	46	—	46	45	12	19	22.0	1.70	330	—	20	—		
Ohio	1475	—	1475	1441	16	18	26.0	1.70	37466	27	—	—		
Ind.	2297	—	2297	2205	23	69	26.5	1.50	58432	34	—	—		
Ill.	5079	—	5079	5013	20	46	28.0	1.30	140364	26	—	—		
Mich.	280	—	280	265	—	15	23.0	—	6095	—	—	—		
Wis.	132	—	132	120	7	5	14.5	1.55	1740	11	—	—		
Minn.	3129	—	3129	3082	—	47	17.5	—	53935	—	—	—		
Iowa	3100	—	3100	3085	9	6	25.5	1.55	78668	14	—	—		
Mo.	2294	—	2294	2132	20	142	26.0	1.40	55432	28	—	—		
N. D.	285	—	285	272	—	13	13.5	—	3672	—	—	—		
S. D.	266	—	266	259	—	7	11.5	—	2978	—	—	—		
Nebr.	210	—	210	206	—	4	30.0	—	6180	—	—	—		
Kans.	434	—	434	421	4	9	22.0	1.80	9282	7	—	—		
Del.	167	—	167	161	5	1	22.5	1.30	3622	6	—	—		
Md.	210	—	210	193	6	11	22.0	1.60	4346	10	—	—		
Va.	289	34	306	269	13	24	22.5	1.40	6052	18	—	—		
W. Va.	7	—	7	5	2	—	1.70	—	—	8	—	—		
N. C.	524	62	555	444	64	47	23.0	1.15	10212	74	—	—		
S. C.	389	76	427	362	24	41	15.5	1.20	5611	29	—	—		
Ga.	115	66	148	90	17	41	12.5	1.00	1125	17	—	—		
Fla.	48	—	48	46	—	2	25.0	—	1150	—	—	—		
Ky.	220	—	220	158	55	7	24.5	1.80	3871	99	—	—		
Tenn.	366	36	384	276	77	31	23.5	1.60	6486	123	—	—		
Ala.	179	—	179	132	43	4	22.5	1.00	2970	43	—	—		
Miss.	938	27	952	800	76	76	23.0	1.60	18400	122	—	—		
Ark.	2078	30	2093	2026	25	42	24.5	1.35	49637	34	—	—		
La.	170	134	237	130	11	96	22.0	1.00	2860	11	—	—		
Okla.	54	—	54	45	4	5	22.5	1.10	1012	4	—	—		
Tex.	62	—	62	53	4	5	26.0	1.40	1378	6	—	—		
U. S.	24900	465	25133	23752	541	840	24.2	1.43	574413	773	—	—		

\*Preliminary. \*\*Acres grown alone, plus one-half the interplanted acreage. ‡Equivalent solid acreage (acreage grown alone, with an allowance for acreage grown with other crops).

## SOYBEAN PRODUCTION—(Continued)

*Soybeans: Supply and utilization in the United States, 1924-58 (1,000 bushels)*

Year beginning Oct. 1	Supply						Utilization				Carry- over Sept. 30.7*
	Total stocks Oct. 1*	Produc- tion**	Imports for con- sump- tion	Total supply†	Seed	Feed‡	Processed for oil and meal	Exports§	Other uses		
1924-25	5	4,947	60	5,012	1,900	1,207	307	—	1,596	2	
1925-26	2	4,875	71	4,948	2,289	1,174	351	—	1,134	8*	
1926-27	8*	5,239	67	5,306	2,525	1,311	335	—	1,133	2*	
1927-28	2	6,938	70	7,010	2,687	1,631	559	—	2,133	8*	
1928-29	8*	7,880	77	7,957	2,984	1,473	882	—	2,548	70	
1929-30	70	9,438	64	9,572	3,762	1,730	1,666	—	2,298	116	
1930-31	116	13,929	54	14,099	4,724	2,763	4,069	—	2,049	494	
1931-32	494	17,260	49	17,803	4,633	2,867	4,725	2,161	3,295	122	
1932-33	122	15,158	13	15,293	4,490	2,264	3,470	2,450	2,561	58	
1933-34	58	13,509	6	13,573	7,615	2,111	3,054	—	767	26	
1934-35	26	23,157	5	23,188	10,066	2,036	9,105	19	1,643	319	
1935-36	319	48,901	4	49,224	8,875	3,898	25,181	3,490	7,419	361	
1936-37	361	33,721	17	34,099	9,539	2,741	20,618	19	889	293	
1937-38	293	46,164	3	46,460	10,947	3,273	30,310	1,392	198	340	
1938-39	340	61,906	3	62,249	14,667	4,554	44,648	4,424	—7,009	965	
1939-40	965	90,141	2	91,108	15,974	5,365	56,684	10,979	1,713	393	
1940-41	393	78,045	1	78,439	15,141	4,999	64,056	284	—6,731	690	
1941-42	690	107,197	8*	107,887	20,385	3,925	77,151	489	—72	6,009	
1942-43	6,009	187,524	8*	193,533	20,980	6,016	133,454	917	19,629	12,537	
1943-44	12,537	190,133	8*	202,670	19,758	5,496	142,306	962	19,995	14,153	
1944-45	14,153	192,121	4	206,278	18,911	5,529	153,402	5,090	17,607	7,739	
1945-46	7,739	193,167	8*	200,906	16,745	3,727	159,460	2,858	13,760	4,356	
1946-47	4,356	203,395	8*	207,751	17,455	2,638	170,245	3,880	8,140	5,393	
1947-48	5,393	186,451	8*	191,844	16,066	2,503	161,397	2,972	6,289	2,617	
1948-49	2,617	227,217	7	229,841	15,945	2,805	183,664	23,015	1,231	3,181	
1949-50	3,181	234,194	4	237,379	19,021	2,506	195,265	13,142	4,538	2,907	
1950-51	2,907	299,249	2	302,158	18,225	2,530	251,990	27,833	—2,581	4,161	
1951-52	4,161	283,777	1	287,939	19,539	2,027	244,380	17,046	1,358	3,589	
1952-53	3,589	298,839	2	302,430	20,539	1,852	234,404	31,908	3,593	10,134	
1953-54	10,134	269,169	19	279,322	22,900	1,358	213,158	39,663	2,236	1,345	
1954-55	1,345	341,075	1	342,421	23,426	1,590	249,010	60,619	—583	9,949	
1955-56	9,949	373,522	2	383,473	26,086	1,656	283,126	67,483	3,045	3,731	
1956-57	3,731	449,446	0	453,177	26,225	1,682	315,941	85,360	15,759	9,897	
1957-58	9897	483,715	0	493,612	28,236	2,066	353,806	85,507	1,100	21,083	
1958-59	21,083	574,413	0	595,496	—	—	—	—	—	—	

\*Factory and warehouse stocks only, through Oct. 1, 1941; total stocks, Oct. 1, 1942, and subsequently.  
\*\*Crop of year listed first, e.g., the 1924 crop was 4,947,000 bushels. †Sum of stocks, production and imports. The "total supply" figures for years previous to 1942-43 are incomplete to the extent that they do not include stocks on farms, in country elevators, and at terminal markets. (Such stocks were not reported previous to Oct. 1, 1942.) Figures are not adjusted for new crop soybeans used in September. ‡Fed to livestock on farms where produced. §Data not available for years previous to 1931-32. Includes shipments to U. S. territories, 1937-38 through 1950-51. ||Residual item. This includes soybeans fed to livestock other than on farms where the soybeans were produced. It may also include small quantities used for human food. Prior to 1951-52 it includes exports. Prior to 1937-38 it includes shipments to U. S. territories. The minus quantities shown for some years are explainable largely by unreported stocks (prior to October 1942) and by the use of new crop soybeans in September of year of production. \* Factory and warehouse stocks only, through Sept. 30, 1941; total stocks, Sept. 30, 1942, and subsequently. \*\* Less than 500 bushels. Source of data: Agricultural Marketing Service, U. S. Department of Agriculture.

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# CANADIAN PRODUCTION

**Soybean acreage, yield per acre, and production, 1942-1958.**

Year	Acreage Acres	Yield per acre Bushels	Production Bushels	Crop year	Soybeans crushed Bushels	Oil produced Tons	Oilcake and meal produced Tons
1942	41,500	21.0	872,000		241,315	1,078	6,308
1943	35,600	16.0	570,000	1943-44	889,283	3,875	21,064
1944	36,200	18.8	681,000	1944-45	1,541,869	7,333	36,439
1945	46,200	18.3	844,000	1945-46	2,277,304	11,362	52,596
1946	59,200	18.1	1,072,000	1946-47	2,300,743	12,236	54,343
1947	61,000	18.2	1,110,000	1947-48	3,901,831	19,832	89,002
1948	94,000	19.4	1,824,000	1948-49	4,958,799	25,237	116,845
1949	104,000	25.1	2,610,000	1949-50	7,393,274	36,338	176,343
1950	142,000	23.4	3,323,000	1950-51	7,059,102	35,163	169,762
1951	155,000	24.8	3,844,000	1951-52	8,406,128	43,963	200,725
1952	172,000	24.0	4,128,000	1952-53	8,837,753	46,695	213,169
1953	216,000	20.4	4,406,000	1953-54	10,211,458	52,559	241,465
1954	254,000	19.5	4,953,000	1954-55	11,799,333	62,085	279,095
1955	214,000	26.4	5,650,000	1955-56	13,445,517	70,906	322,848
1956	243,200	21.8	5,301,000	1956-57	13,794,847	72,966	326,377
1957	256,000	25.4	6,508,000	1957-58			
1958	263,000	25.3	6,649,000				

Compiled from official records of the Dominion Bureau of Statistics, U. S. Department of Agriculture, Foreign Agricultural Service, Fats and Oils Division.

**Soybean oil and oilcake production, crop years 1943-44 through 1957-58.**

Compiled from official records of the Dominion Bureau of Statistics, U. S. Department of Agriculture, Foreign Agricultural Service, Fats and Oils Division.

## SOYBEAN PRODUCTION, UTILIZATION AND VALUE, 1936-1958 CANADA

Year beginning Aug. 1	Production* 000 bu.	Imports 000 bu.	Supplies 000 bu.	Exports of beans 000 bu.	Farm value of production \$ 000	Processed for oil and meal 000 bu.	Soybean oil produced 000 lb.	Soybean oilcake produced Short tons
1936	248	7	255	—	N. A.	N. A.	N. A.	N. A.
1937	159	44	203	—	N. A.	N. A.	N. A.	N. A.
1938	204	109	313	—	N. A.	N. A.	N. A.	N. A.
1939	215	136	351	—	N. A.	N. A.	N. A.	N. A.
1940	233	27	260	—	N. A.	N. A.	N. A.	N. A.
1941	217	46	263	—	N. A.	N. A.	N. A.	N. A.
1942	872	35	907	—	1,509	N. A.	N. A.	N. A.
1943	570*	168	738	—	1,026	241	2,156	6,308
1944	681*	476	1,157	—	1,362	889	1,751	21,064
1945	844*	1,245	2,089	—	1,604	1,542	14,666	36,439
1946	1,072	1,786	2,858	—	2,370	2,277	22,723	52,596
1947	1,110	1,075	2,185	—	3,397	2,301	24,472	54,343
1948	1,824	2,066	3,890	—	4,195	3,902	39,664	89,002
1949	2,605	2,837	5,442	—	5,887	4,959	50,474	116,845
1950	3,323	4,723	8,046	—	8,474	7,393	72,676	176,343
1951	3,844	4,229	8,073	—	10,571	7,059	70,325	169,762
1952	4,128	3,897	8,025	—	10,526	8,406	87,926	200,725
1953	4,406	4,948	9,354	568	10,795	8,838	93,390	213,169
1954	4,953	7,694	12,647	905	11,887	10,211	105,118	241,465
1955	5,650	8,309	13,959	1,492	11,808	11,799	124,171	279,095
1956	5,301	10,608	15,909	1,578	11,376	13,446	141,813	322,848
1957	6,524	10,786	17,310	2,126	12,700	13,795	145,931	326,377
1958	6,649							

Compiled from official records of the Dominion Bureau of Statistics, U. S. Department of Agriculture, Foreign Agricultural Service, Fats and Oils Division. \*With the exception of the period 1943-45 when small quantities were grown in Manitoba and British Columbia, the production of soybeans in Canada has taken place in the province of Ontario. In 1956, 3,200 acres produced 32,000 bushels and in 1957 4,000 acres produced 48,000 bushels.

## SOYBEAN CRUSHINGS IN CANADA

Soybean crushings in Canada, crop years 1946-47, 1957-58

Year	Quantity crushed bu.	Oil produced lb.	Oil meal produced tons
1946-47	2,277,304	22,723,208	52,596
1947-48	2,300,743	24,472,042	54,343
1948-49	3,901,831	39,663,914	89,002
1949-50	4,958,799	50,473,816	116,845
1950-51	7,393,274	72,676,381	176,343
1951-52	7,059,102	70,325,206	169,762
1952-53	8,406,128	87,925,833	200,725
1953-54	8,837,753	93,289,955	213,169
1954-55	10,211,458	105,117,779	241,465
1955-56	11,799,336	124,170,765	279,095
1956-57	13,445,526	141,822,239	322,848
1957-58 1/	13,794,847	145,931,225	326,377

1/ Preliminary. From Dominion Bureau of Statistics, Ottawa.



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# WORLD SOYBEAN PRODUCTION

Soybeans: Acreage, yield per acre, and production in specified countries and the world, averages 1935-39 and 1950-54, annual 1956-58 1/

Continent and country	Acreage 2/		Yield per acre		Production	
	'35-39 1,000 acres	'50-54 1,000 acres	'35-39 1,000 acres	'50-54 1,000 acres	'35-39 Bu.	'50-54 Bu.
North America						
Canada	10 3,042	188 14,747	243 20,642	256 23,367	263 18.5	21.3 20.3
United States	4/ 5/	10 3,042	243 14,747	256 20,642	263 18.5	21.8 21.8
South America						
Argentina						
Brazil						
Europe						
Italy	6/ 95	2/ 12	1/ 7	1/ 15	19 14.9	14.9 12.1
Yugoslavia						
Other Europe						
U.S.S.R. (Europe)						
and Asia	7/ 607	813 788	-----	-----	-----	7/ 5,805
Africa						
Belgian Congo						
and Rwanda Urundi						
Nigeria	8/ -----	9 -----	16 -----	15 -----	15 -----	7.4 -----
Union of South Africa						
Asia						
Turkey (Europe and Asia)	7/ 1 (12,411 8,992	8 -----	15 29,800	7 28,000	7/ 23,000	12.9 (16.7 11.8 10.0 10.3 10.3 15.6 10.0 10.5 12.0 16.0
China						
Manchuria	9/ 889					
Indonesia						
Japan						
Korea						
South Taiwan	4/ 15	797 4/10,1,921	625 62	921 93	856 685 101 59	1,241 947 661 101 99 63 54
Thailand						
Total excluding "Other Europe," U.S.S.R., China, Mainland and North Korea						
World Total 11/	5,670 29,000	18,080 45,160	24,285 55,725	24,495 54,140	27,035 51,680	-----

1/ Years shown refer to years of harvest. Southern Hemisphere crops which are harvested in the early part of the year are combined with those of the Northern Hemisphere harvested the latter part of the same year. 2/ Figures refer to harvested areas as far as possible. 3/ Preliminary. 4/ Average for less than 5 years. 5/ Acreage harvested for beans. 6/ Less than 500 acres. 7/ One year only. 8/ Purchases for export. Local consumption is small. 9/ Java and Madura only. 10/ Includes North Korea. 11/ Includes estimates for the above countries for which data are not available and for minor producing countries. Foreign Agricultural Service, Prepared or estimated on the basis of official statistics of foreign governments, other foreign source material, reports of U. S. Agricultural Attachés and other U. S. representatives abroad, and related information. Prewar estimates for countries having changed boundaries have been adjusted to conform to present boundaries, except as noted.

# SOYBEAN PRODUCTION

Soybeans: Acreage, yield and production 1924-58 by states

Year	Acres planted			Acres harv.			Grazed	Average yield	Total prod.	
	Grown alone	Inter-planted*	Equivalent solid†	for beans‡	for hay	or plowed under	for beans	per acre harv.	for beans Thous. bushels	
	— Thousand acres —	— Thousand acres —	— Thousand acres —	Bushels	Tons				Thous. tons	
<b>Alabama</b>										
1924 ---	95	25	107	3	81	23	6.5	.80	20	65
1930 ---	150	14	157	8	129	20	5.0	.80	40	103
1940 ---	275	37	294	11	238	45	6.5	.90	72	214
1950 ---	150	10	155	73	68	14	19.0	1.00	1387	68
51 ---	166	8	170	88	66	16	18.0	.90	1584	59
52 ---	166	7	170	92	68	10	19.0	.80	1748	54
53 ---	149	6	152	92	53	7	20.5	.90	1886	48
54 ---	165	7	169	104	54	11	11.5	.75	1196	40
55 ---	148	---	148	94	51	3	23.0	1.00	2162	51
56 ---	155	---	155	110	43	2	21.0	.95	2310	41
57 ---	163	---	163	122	39	2	20.0	.85	2440	33
58\$ ---	179	---	179	132	43	4	22.5	1.00	2970	43
<b>Arkansas</b>										
1924 ---	24	27	38	3	24	11	6.5	1.10	20	26
1930 ---	76	51	102	9	76	17	7.5	.75	68	57
1940 ---	205	413	411	63	163	185	12.0	1.25	756	204
1950 ---	646	176	734	581	80	73	21.5	1.20	12492	96
51 ---	685	111	741	607	74	60	20.0	1.15	12140	85
52 ---	952	88	996	866	100	30	16.0	.90	13856	90
53 ---	800	62	831	665	108	58	11.0	.85	7315	92
54 ---	980	90	1025	902	90	33	11.5	.80	10373	72
55 ---	1277	66	1310	1217	50	43	18.0	1.10	21906	55
56 ---	1558	60	1588	1509	35	44	18.0	1.00	27162	45
57 ---	1433	36	1451	1383	27	41	23.5	1.25	32580	34
58\$ ---	2078	30	2093	2026	25	42	24.5	1.35	49637	34
<b>Delaware</b>										
1924 ---	18	---	18	12	6	---	11.0	1.00	132	6
1930 ---	25	---	25	15	10	---	6.0	1.15	90	12
1940 ---	48	---	48	25	16	7	12.0	1.20	500	19
1950 ---	74	---	74	63	8	3	14.0	1.30	882	10
51 ---	69	---	69	61	6	2	14.5	1.30	884	8
52 ---	67	---	67	58	7	2	17.0	1.35	986	9
53 ---	72	---	72	64	6	2	16.5	1.25	1056	5
54 ---	78	---	78	68	8	2	17.5	1.20	1190	10
55 ---	110	---	110	105	4	1	20.0	1.30	2100	5
56 ---	155	---	155	150	4	1	23.0	1.30	3450	5
57 ---	152	---	152	146	4	1	17.5	1.30	2555	5
58\$ ---	167	---	167	161	5	1	22.5	1.30	3622	6
<b>Florida</b>										
(Not estimated prior to 1949)										
1949 ---	8	---	8	6	---	2	20.0	---	120	---
1950 ---	9	---	9	7	---	2	19.0	---	133	---
51 ---	10	---	10	8	---	2	18.0	---	144	---
52 ---	14	---	14	12	---	2	20.0	---	240	---
53 ---	17	---	17	14	---	3	18.0	---	252	---
54 ---	35	---	35	29	---	6	12.0	---	348	---
55 ---	40	---	40	36	---	4	22.0	---	792	---
56 ---	40	---	40	34	---	6	22.0	---	748	---
57 ---	50	---	50	45	---	5	23.0	---	1035	---
58\$ ---	48	---	48	46	---	2	25.0	---	1150	---
<b>Georgia</b>										
1924 ---	40	28	54	10	25	19	5.5	.80	55	20
1930 ---	56	26	69	10	50	9	5.5	.87	55	44
1940 ---	100	120	160	13	90	57	7.0	.95	91	86
1950 ---	78	58	107	26	28	53	11.0	.95	286	27
51 ---	86	55	114	21	30	63	10.5	.90	220	27
52 ---	90	76	128	36	36	56	10.5	.95	378	34
53 ---	100	74	137	45	41	51	12.0	1.00	540	41
54 ---	100	100	150	29	44	77	7.0	.75	203	33
55 ---	90	54	117	57	34	26	12.0	1.05	684	36
56 ---	107	54	134	83	27	24	13.5	.95	1120	26
57 ---	122	60	152	100	23	29	14.0	1.00	1400	23
58\$ ---	115	66	148	90	17	41	12.5	1.00	1125	17

\*Grown with other crops. †Equivalent solid acreage (acreage grown alone with an allowance for acreage grown with other crops). §Preliminary. Source of data: Agricultural Marketing Service, U. S. Dept. of Agriculture.

## SOYBEAN PRODUCTION—(Continued)

Soybeans: Acreage, yield and production 1924-58 by states

Year	Acres planted			Acres harv.			Grazed	Average yield	Total prod.	
	Grown alone	Inter-planted*	Equivalent solid†	for beans‡	for hay	or plowed under	per acre harv.	for beans	for hay	Thous. bushels
	—Thousand acres—			—Thousand acres—			Bushels	Tons	Thous. bushels	Thous. tons
<b>Illinois</b>										
1924	315	—	315	115	200	—	12.0	1.30	1380	260
1930	720	—	720	410	310	—	17.0	1.20	6970	372
1940	3011	—	3011	1995	748	268	17.5	1.25	34912	935
1950	4108	—	4108	3989	94	25	24.0	1.30	95736	122
51	3841	—	3841	3731	72	38	25.5	1.40	95140	101
52	3840	—	3830	3716	95	19	24.0	1.10	89184	104
53	3983	—	3983	3846	104	33	20.5	1.10	78843	114
54	4262	—	4262	4143	85	34	21.5	1.10	89074	94
55	4390	—	4390	4328	41	21	23.0	1.20	99544	49
56	4697	—	4697	4649	20	28	28.5	1.35	132496	27
57	4979	—	4979	4914	25	40	25.5	1.20	125307	30
58‡	5079	—	5079	5013	20	46	28.0	1.30	140364	26
<b>Indiana</b>										
1924	204	—	204	66	109	29	9.9	1.22	653	133
1930	443	—	443	151	248	44	14.0	1.10	2114	273
1940	1418	—	1418	723	548	147	13.0	1.00	9399	548
1950	1765	—	1765	1652	88	25	22.5	1.45	37170	128
51	1800	—	1800	1706	72	22	22.5	1.45	38385	104
52	1782	—	1782	1683	77	22	23.5	1.35	39550	104
53	1889	—	1889	18C8	62	19	21.0	1.25	37968	78
54	2002	—	2002	1922	60	20	24.0	1.30	46128	78
55	2102	—	2102	2039	53	10	21.5	1.40	43838	74
56	2186	—	2186	2142	33	11	24.0	1.50	51408	50
57	2230	—	2230	2174	22	34	24.5	1.35	52994	30
58‡	2297	—	2297	2205	23	69	—	1.50	—	34
<b>Iowa</b>										
1924	23	—	23	10	13	—	12.0	1.50	120	20
1930	124	—	124	66	57	1	15.5	1.30	1023	74
1940	1481	—	1481	709	707	65	20.0	1.70	14180	1202
1950	1960	—	1960	1930	18	12	22.0	1.60	42460	29
51	1638	—	1638	1583	12	43	20.5	1.40	32452	17
52	1540	—	1540	1526	7	7	25.5	1.75	38913	12
53	1679	—	1679	1657	12	10	21.5	1.50	35626	18
54	2149	—	2149	2119	10	20	26.5	1.40	56154	14
55	2278	—	2278	2261	8	9	20.0	1.40	45220	11
56	2551	—	2551	2500	14	37	20.0	1.40	50000	20
57	2844	—	2844	2827	8	9	27.0	1.50	76329	12
58‡	3100	—	3100	3085	9	6	25.5	1.55	78668	14
<b>Kansas</b>										
1924	11	—	11	2	9	—	11.0	1.30	22	12
1930	27	—	27	7	20	—	7.5	1.10	52	22
1940	78	—	78	26	43	9	12.0	1.55	312	67
1950	409	—	409	397	4	8	18.0	1.40	7146	6
51	495	—	495	401	5	89	14.5	1.45	5814	7
52	703	—	703	640	35	28	11.5	1.05	7360	37
53	598	—	598	496	48	54	8.0	.90	3968	43
54	425	—	425	306	13	106	8.0	.70	2448	9
55	374	—	374	335	4	35	10.0	1.00	3350	4
56	408	—	408	355	6	47	8.5	1.00	3018	6
57	241	—	241	214	4	23	11.5	1.25	2461	5
58‡	434	—	434	421	4	9	22.0	1.80	9262	7
<b>Kentucky</b>										
1924	40	10	45	9	30	6	9.5	1.10	86	43
1930	110	8	114	9	88	17	7.5	.75	68	66
1940	180	27	194	31	130	33	13.0	1.30	403	169
1950	202	18	211	126	66	19	17.5	1.45	2205	96
51	212	16	220	130	70	20	19.0	1.40	2470	98
52	220	14	227	110	99	18	15.5	1.20	1705	119
53	200	14	207	96	91	20	13.0	1.30	1248	118
54	204	20	214	128	71	15	16.0	1.35	2048	96
55	204	6	207	134	66	7	18.0	1.60	2412	106
56	190	—	190	133	51	6	22.5	1.70	2992	87
57	188	—	188	130	52	6	20.5	1.60	2665	83
58‡	220	—	220	158	55	7	24.5	1.80	3871	99

\*Grown with other crops. †Equivalent solid acreage (acreage grown alone with an allowance for acreage grown with other crops). ‡Preliminary. Source of data: Agricultural Marketing Service, U. S. Dept. of Agriculture.

## SOYBEAN PRODUCTION—(Continued)

Soybeans: Acreage, yield and production 1924-58 by states

Year	Acres planted			Acres harv.			Grazed	Average yield		Total prod.	
	Grown alone	Inter-planted*	Equivalent	for beans†	for hay	or plowed under	for beans	for hay	bushels	for beans	for hay
								Bushels	Tons	Thous.	Thous.
	— Thousand acres —			— Thousand acres —							
	<b>Louisiana</b>										
1924	10	70	45	8	32	5	8.0	.90	64	29	
1930	34	194	131	16	76	39	10.5	1.00	168	76	
1940	110	530	375	15	82	278	13.5	1.25	202	102	
1950	89	300	239	37	12	190	18.0	1.25	666	15	
51	140	300	290	38	12	240	17.5	1.10	665	13	
52	130	255	258	41	17	200	14.5	1.05	594	18	
53	117	209	221	40	11	170	16.0	1.15	640	13	
54	152	245	274	53	9	212	16.0	1.15	848	10	
55	137	180	227	88	11	128	22.0	1.10	1936	12	
56	185	184	277	135	12	130	17.0	1.10	2295	13	
57	160	149	234	119	9	106	21.0	.90	2499	8	
58§	170	134	237	130	11	96	22.0	1.00	2860	11	
	<b>Maryland</b>										
1924	33	6	36	5	16	15	11.8	1.40	59	22	
1930	33	—	33	5	25	3	6.5	.85	32	21	
1940	65	—	65	19	35	11	13.5	1.50	256	52	
1950	95	—	95	67	21	7	17.0	1.45	1139	30	
51	95	—	95	77	12	6	16.0	1.40	1232	17	
52	94	—	94	75	15	4	18.0	1.45	1350	22	
53	115	—	115	95	18	2	19.0	1.45	1805	26	
54	132	—	132	108	21	3	18.5	1.45	1998	30	
55	175	—	175	155	12	8	20.0	1.45	3100	17	
56	219	—	219	201	6	12	22.0	1.55	4422	9	
57	208	—	208	187	7	14	17.5	1.25	3272	9	
58§	210	—	210	193	6	11	22.0	1.60	4246	10	
	<b>Michigan</b>										
1924	8	—	8	2	6	—	13.0	1.30	26	8	
1930	7	—	7	1	6	—	10.0	.80	10	5	
1940	187	—	187	77	67	43	16.5	1.50	1270	100	
1950	122	—	122	114	4	4	20.0	1.30	2280	55	
51	128	—	128	120	4	4	20.5	1.70	2460	7	
52	105	—	105	92	4	9	19.0	1.40	1748	6	
53	118	—	118	110	2	6	19.0	1.40	2090	3	
54	165	—	165	158	4	3	22.0	1.40	3476	6	
55	145	—	145	138	2	5	22.0	1.50	3036	3	
56	207	—	207	200	1	6	21.0	1.40	4200	1	
57	248	—	248	236	—	12	22.0	—	5192	—	
58§	280	—	280	265	—	15	23.0	—	6095	—	
	<b>Minnesota</b>										
(Not estimated prior to 1933)											
1933	15	—	15	15	—	15	—	1.30	—	20	
1934	117	—	117	2	115	—	15.0	1.10	30	126	
1940	251	—	251	53	183	15	15.0	1.85	795	339	
1950	1200	—	1200	1148	38	14	15.5	1.40	17794	53	
51	1140	—	1140	1077	13	50	17.5	1.40	18848	18	
52	1197	—	1197	1155	6	36	19.0	1.55	21945	9	
53	1400	—	1400	1351	7	42	20.5	1.30	27696	9	
54	2044	—	2044	2014	8	22	21.0	1.50	42294	12	
55	2286	—	2286	2253	7	26	19.5	1.40	43934	10	
56	2697	—	2697	2627	—	70	20.0	—	52540	—	
57	2697	—	2697	2549	—	148	21.5	—	54804	—	
58§	3129	—	3129	3082	—	47	17.5	—	53935	—	
	<b>Mississippi</b>										
1924	45	58	80	21	48	11	8.0	1.00	168	48	
1930	85	75	130	12	103	15	6.5	1.00	78	103	
1940	332	428	546	39	268	239	10.0	1.25	390	335	
1950	504	91	550	358	131	61	25.0	1.35	8950	177	
51	600	70	635	425	127	83	13.0	1.20	5525	152	
52	618	63	650	455	130	65	13.5	1.05	6142	136	
53	494	50	519	250	120	149	12.0	1.05	3000	126	
54	716	50	741	519	133	89	10.0	1.00	5190	133	
55	717	35	735	626	74	35	19.0	1.40	11894	104	
56	832	32	848	732	76	40	16.0	1.30	11712	99	
57	716	30	731	615	66	50	19.0	1.40	11685	92	
58§	938	27	938	800	76	76	23.0	1.60	18400	122	

\*Grown with other crops. †Equivalent solid acreage (acreage grown alone with an allowance for acreage grown with other crops). §Preliminary. Source of data: Agricultural Marketing Service, U. S. Dept. of Agriculture.

## SOYBEAN PRODUCTION—(Continued)

Soybeans: Acreage, yield and production 1924-58 by states

Year	Acres planted			Acres harv.			Grazed	Average yield	Total prod.	
	Grown alone	Inter-planted*	Equivalent solid†	for beans‡	for hay	or plowed under	for beans	per acre harv.	for beans Thous. bushels	for hay Thous. tons
							Thousand acres	Thousand acres	Bushels	Tons
<b>Missouri</b>										
1924	165	—	165	48	112	5	7.5	1.20	360	134
1930	422	50	447	138	288	21	7.0	.85	966	245
1940	564	80	604	109	401	94	13.0	1.40	1417	561
1950	1225	48	1249	1209	25	15	23.0	1.35	27807	34
51	1396	44	1418	1290	28	100	20.0	1.35	25800	38
52	1801	46	1824	1724	55	45	19.0	1.20	32756	66
53	2071	40	2091	1932	99	60	14.0	1.00	27048	99
54	1967	40	1987	1836	45	106	15.0	1.05	27540	47
55	1947	10	1952	1900	26	26	17.5	1.10	33250	29
56	1859	6	1872	1821	26	25	20.0	1.20	36420	31
57	1806	—	1806	1719	20	67	21.5	1.30	36958	26
58§	2294	—	2294	2132	20	142	26.0	1.40	55432	28
<b>Nebraska</b>										
(Not estimated prior to 1929)										
1929	2	—	2	—	2	—	—	1.40	—	3
1930	3	—	3	—	3	—	—	1.20	—	4
1940	20	—	20	4	13	3	14.0	1.20	56	16
1950	50	—	50	50	—	—	24.0	—	1200	—
51	60	—	60	58	—	2	22.0	—	1276	—
52	90	—	90	88	—	2	26.0	—	2288	—
53	108	—	108	105	—	3	18.5	—	1942	—
54	194	—	194	190	—	4	22.0	—	4180	—
55	196	—	196	180	—	16	10.5	—	1890	—
56	171	—	171	152	—	19	11.5	—	1748	—
57	145	—	145	142	—	3	27.0	—	3834	—
58§	210	—	210	206	—	4	30.0	—	6180	—
<b>New Jersey</b>										
1924	1	—	1	—	1	—	—	1.35	—	1
1930	3	—	3	—	3	—	—	1.25	—	4
1940	31	—	31	5	16	10	14.5	1.50	72	24
1950	37	—	37	20	12	12	20.5	1.70	410	8
51	39	—	39	21	9	9	16.5	1.65	346	15
52	36	—	36	25	6	5	20.5	1.95	512	12
53	41	—	41	36	1	4	18.0	1.90	648	2
54	42	—	42	31	3	8	21.0	1.70	651	5
55	43	—	43	36	2	5	19.0	1.50	684	3
56	51	—	51	45	2	4	24.0	1.80	1080	4
57	57	—	57	44	2	11	14.0	1.20	616	2
58§	50	—	50	45	1	4	25.0	1.50	1125	2
<b>New York</b>										
1924	4	—	4	—	4	—	—	1.60	—	6
1930	3	—	3	—	3	—	—	1.60	—	5
1940	21	—	21	14	5	2	13.0	1.65	182	8
1950	9	—	9	7	—	2	18.0	—	126	—
51	9	—	9	7	—	2	18.0	—	126	—
52	7	—	7	5	—	2	17.5	—	88	—
53	8	—	8	6	—	2	16.0	—	96	—
54	11	—	11	9	—	2	11.0	—	99	—
55	7	—	7	5	—	2	16.0	—	80	—
56	9	—	9	8	—	1	14.0	—	112	—
57	7	—	7	6	—	1	18.0	—	108	—
58§	7	—	7	6	—	1	17.0	—	102	—
<b>North Carolina</b>										
1924	120	90	165	75	70	20	15.5	.90	1162	63
1930	230	220	340	128	150	62	10.5	.85	1344	128
1940	360	450	585	190	180	215	12.0	1.10	2280	198
1950	410	206	513	297	122	94	16.0	1.10	4752	134
51	445	184	537	309	123	105	16.5	1.20	5098	148
52	432	153	508	287	127	94	16.5	1.05	4736	133
53	397	138	466	263	136	67	15.5	1.00	4076	136
54	441	145	513	295	131	87	16.0	1.05	4720	138
55	430	76	468	327	76	65	15.5	1.10	5068	84
56	494	66	527	416	58	53	21.5	1.15	8944	67
57	514	60	544	441	58	45	20.0	1.15	8820	67
58§	524	62	555	444	64	47	23.0	1.15	10212	74

\*Grown with other crops. †Equivalent solid acreage (acreage grown alone with an allowance for acreage grown with other crops). §Preliminary. Source of data: Agricultural Marketing Service, U. S. Dept. of Agriculture.

## SOYBEAN PRODUCTION—(Continued)

Soybeans: Acreage, yield and production 1924-58 by states

Year	Acres planted		Acres harv.		Grazed or plowed under	Average yield		Total prod.		
	Grown alone	Inter-planted <sup>a</sup>	Equivalent solid <sup>b</sup>	for beans†		for beans	for hay	for beans	for hay	
						Bushels	Tons	Thous. bushels	Thous. tons	
<b>North Dakota</b>										
(Not estimated prior to 1942)										
1942	7	—	7	4	2	10.0	1.30	40	3	
1945	7	—	7	5	1	11.5	1.25	58	1	
1950	44	—	44	41	2	10.5	1.20	430	2	
51	31	—	31	28	2	13.0	1.25	364	2	
52	31	—	31	29	1	12.5	1.20	362	1	
53	23	—	23	23	—	14.0	—	322	—	
54	51	—	51	50	—	15.0	—	750	—	
55	90	—	90	88	2	15.5	—	1364	—	
56	184	—	184	177	—	7	13.0	—	2301	—
57	201	—	201	184	—	17	18.0	—	3312	—
58§	285	—	285	272	—	13	13.5	—	3672	—
<b>Ohio</b>										
1924	66	—	66	20	44	2	11.5	1.20	230	53
1930	112	—	112	31	77	4	14.0	.90	434	69
1940	1020	—	1020	561	347	112	16.0	1.30	8976	451
1950	1136	—	1136	1090	29	17	22.5	1.50	24525	44
51	1159	—	1159	1124	18	17	19.0	1.35	21356	24
52	985	—	985	940	26	19	22.0	1.45	20680	38
53	1064	—	1064	1036	18	10	20.5	1.45	21238	26
54	1192	—	1192	1165	13	14	25.5	1.55	29708	20
55	1217	—	1217	1193	14	10	24.5	1.55	29228	22
56	1339	—	1339	1301	13	25	24.0	1.60	31224	21
57	1446	—	1446	1421	13	12	23.0	1.45	32683	19
58§	1475	—	1475	1441	16	18	26.0	1.70	37466	27
<b>Oklahoma</b>										
1924	7	1	8	3	4	1	6.5	1.15	20	5
1930	25	3	26	8	17	1	6.5	.75	52	13
1940	18	3	20	2	8	10	7.5	1.00	15	8
1950	35	—	35	23	8	4	17.0	1.10	391	9
51	130	—	130	84	26	20	13.5	1.15	1134	30
52	162	—	162	88	40	34	10.0	.90	880	36
53	73	—	73	48	15	10	10.0	.95	480	14
54	58	—	58	32	10	16	6.0	.65	192	6
55	53	—	53	40	5	8	11.5	.95	460	5
56	54	—	54	25	10	19	8.0	.70	200	7
57	38	—	38	30	3	5	17.0	1.00	510	3
58§	54	—	54	45	4	5	22.5	1.10	1012	4
<b>Pennsylvania</b>										
1924	7	—	7	7	—	1	—	1.45	—	10
1930	11	—	11	10	—	—	1.10	—	—	11
1940	82	—	82	14	54	14	16.0	1.50	224	81
1950	48	—	48	24	19	5	17.5	1.65	420	31
51	43	—	43	22	17	4	17.0	1.65	374	28
52	37	—	37	19	15	3	19.0	1.65	361	25
53	37	—	37	19	13	5	17.0	1.60	323	21
54	37	—	37	17	13	7	18.0	1.65	306	21
55	55	—	55	22	16	17	20.0	1.60	440	26
56	55	—	55	21	14	20	18.5	1.55	388	22
57	53	—	53	17	13	23	13.0	1.50	221	20
58§	46	—	46	15	12	19	22.0	1.70	330	20
<b>South Carolina</b>										
1924	9	28	23	7	9	7	7.0	.70	49	6
1930	20	50	45	9	23	13	6.5	.80	58	18
1940	32	94	79	11	29	39	6.5	.85	72	25
1950	94	104	146	62	23	61	12.0	1.00	744	23
51	114	102	165	83	21	61	12.5	1.00	1038	21
52	132	106	185	98	33	54	11.5	.95	1127	31
53	150	100	200	130	28	42	11.0	.95	1430	27
54	176	120	236	130	27	79	7.0	.65	910	18
55	222	77	260	189	36	35	15.0	1.10	2835	40
56	289	80	329	276	20	33	11.0	1.05	3036	21
57	341	72	377	329	16	32	16.5	1.10	5428	18
58§	389	76	427	362	24	41	15.5	1.20	5611	29

\*Grown with other crops. †Equivalent solid acreage (acreage grown alone with an allowance for acreage grown with other crops). §Preliminary. Source of data: Agricultural Marketing Service, U. S. Dept. of Agriculture.

## SOYBEAN PRODUCTION—(Continued)

Soybeans: Acreage, yield and production 1924-58 by states

Year	Acres planted			Acres harv.		Grazed	Average yield		Total prod.	
	Grown alone	Inter-planted*	Equivalent solid†	for beans‡	for hay	or plowed under	for beans	for hay	for beans Thous. bushels	for hay Thous. tons
						Thousand acres				
<b>South Dakota</b>										
1939	2		2		2			1.10		
1940	4		4	1	2	1	12.0	1.20	12	2
1950	72		72	70	1	1	12.5	1.10	875	1
51	63		63	60	1	2	14.5	1.20	870	1
52	89		89	85		4	15.0		1275	
53	90		90	87		3	19.0		1653	
54	180		180	173		7	18.0		3114	
55	249		249	243		6	11.5		2794	
56	237		237	224		13	11.5		2576	
57	194		194	186		8	16.5		3069	
58§	266		266	259		7	11.5		2978	
<b>Tennessee</b>										
1924	160	50	185	10	153	22	8.5	1.08	85	165
1930	190	64	222	20	172	30	7.5	.72	150	124
1940	167	298	316	19	122	175	8.5	1.30	162	159
1950	248	163	330	168	70	92	21.0	1.30	3528	91
51	310	142	381	183	99	99	17.5	1.20	3202	119
52	326	118	385	181	142	62	20.0	1.00	3620	142
53	258	100	308	150	95	63	13.5	1.20	2025	114
54	307	120	367	190	112	65	13.5	.90	2565	101
55	335	57	363	250	84	29	18.0	1.40	4500	118
56	308	54	335	240	60	35	16.5	1.35	3960	81
57	265	36	283	187	55	41	22.5	1.40	4208	77
58§	366	36	384	276	77	31	23.5	1.60	6486	123
<b>Texas</b>										
(Not estimated prior to 1934)										
1934	7	3	8	2	5	1	8.5	.45	17	2
1940	21	4	23	3	14	6	9.5	.90	28	13
1950	10		10	---	2	8	---	.75		2
51	3		3	---	1	2	---	.70		1
52	5		5	---	1	4	---	.80		1
53	5		5	---	1	4	---	.90		1
54	8		8	4	1	3	13.5	.80	54	1
55	5		5	2	1	2	13.0	1.00	26	1
56	27		27	20	3	4	22.0	1.30	440	4
57	27		27	20	3	4	27.0	1.50	540	4
58§	62		62	53	4	5	26.0	1.40	1378	6
<b>Virginia</b>										
1924	88	24	100	15	74	11	13.0	1.00	195	74
1930	120	31	136	17	79	40	7.0	.70	119	55
1940	128	105	180	49	93	38	15.5	1.35	760	126
1950	202	54	229	152	25	52	19.0	1.35	2888	34
51	220	56	248	166	34	48	18.0	1.30	2988	44
52	224	58	253	174	33	46	17.0	1.30	2958	43
53	231	58	260	167	52	41	16.0	1.10	2672	57
54	249	58	278	187	53	38	15.5	1.00	2898	53
55	238	42	259	201	21	37	20.0	1.25	4020	26
56	293	42	314	271	13	30	21.5	1.40	5826	18
57	270	32	286	238	11	37	18.0	1.25	4284	14
58§	289	34	306	269	13	24	22.5	1.40	6052	18
<b>West Virginia</b>										
1924	36		36	1	35	---	14.0	1.45	14	51
1930	29		29	2	27	---	7.5	.75	15	20
1940	63		63	1	55	7	13.0	1.50	13	82
1950	13		13	1	10	2	15.0	1.60	15	16
51	11		11	1	8	2	14.5	1.60	14	13
52	9		9	1	7	1	15.0	1.60	15	11
53	9		9	---	7	2	---	1.50		10
54	10		10	---	8	2	---	1.75		14
55	8		8	---	6	2	---	1.50		9
56	8		8	---	6	2	---	1.75		10
57	7		7	---	5	2	---	1.55		8
58§	7		7	---	5	2	---	1.70		8

\*Grown with other crops. †Equivalent solid acreage (acreage grown alone with an allowance for acreage grown with other crops). §Preliminary. Source of data: Agricultural Marketing Service, U. S. Dept. of Agriculture.

## SOYBEAN PRODUCTION—(Continued)

Soybeans: Acreage, yield and production 1924-58 by states

Year	Acres planted			Acres harv.			Grazed	Average yield	Total prod.		
	Grown alone	Inter-planted*	Equivalent solid†	for beans‡	for hay	or plowed under	for beans	per acre harv.	for beans Thous. bushels	for hay Thous. bushels	for hay Thous. tons
							Thousand acres		Bushels	Tons	
	<b>Wisconsin</b>										
1924	38	—	38	3	35	—	9.0	1.40	27	49	
1930	14	—	14	2	12	—	11.5	1.20	23	32	14
1940	215	—	215	25	162	28	17.5	2.00	438	324	
1950	85	—	85	33	45	7	14.0	1.65	462	74	
51	63	—	63	44	13	6	14.5	1.70	638	22	
52	61	—	61	48	9	4	17.0	1.95	816	18	
53	70	—	70	56	10	4	14.5	1.65	812	16	
54	87	—	87	69	12	6	15.0	1.60	1035	19	
55	90	—	90	78	7	5	12.5	1.45	975	10	
56	96	—	96	85	6	5	15.5	1.95	1318	12	
57	110	—	110	101	4	5	17.0	1.60	1717	6	
58§	132	—	132	120	7	5	14.5	1.55	1740	11	

\*Grown with other crops. †Equivalent solid acreage (acreage grown alone with an allowance for acreage grown with other crops). §Preliminary. Source of data: Agricultural Marketing Service, U. S. Dept. of Agriculture.

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## SOYBEANS—SUPPLY AND DISTRIBUTION

**1952-58 (1,000 bushels)**

Quarter or period	Farms	Supply at beginning of period 1/ Interior mills and Crushing plants			Terminal markets	Production	Total supply	Used for seed	Net exports 3/ 3/	Crushed at mills	Feed and residual 4/ 4/	Total disappear- ance		
		ccc	2/	Total										
<b>1952-53</b>														
Oct.-Dec.	1,972	296	611	711	3,589	298,839	302,428	13,918	—	3,839	75,980			
Jan.-Mar.	83,819	48,346	79,852	13,394	1,037	226,448	226,448	7,446	60,665	11,206	75,297			
Apr.-June	59,749	27,326	49,613	9,048	147,151	147,151	147,151	6,349	57,163	7,844	84,835			
July-Sept.	20,417	11,393	26,905	3,245	356	62,136	62,136	4,213	50,675	2,706	52,182			
Season						3,589	298,839	302,428	31,906	234,404	5,445	292,294		
<b>1953-54</b>														
Oct.-Dec.	5,752	2,021	1,023	1,098	240	10,134	269,169	279,303	—	23,614	62,326	3,095	89,035	
Jan.-Mar.	36,675	58,531	13,196	286	190,268	190,268	190,268	—	58,903	5,500	72,261			
Apr.-June	37,351	16,862	52,297	11,461	36	118,007	118,007	118,007	50,632	3,068	2,379	82,393		
July-Sept.	3,645	3,454	24,598	3,917	—	35,614	35,614	35,614	41,297	—	9,407	34,269		
Season						10,134	269,169	279,303	39,644	213,158	2,256	277,958		
<b>1954-55</b>														
Oct.-Dec.	538	113	81	613	—	1,345	341,075	342,420	—	27,500	65,114	9,490	83,124	
Jan.-Mar.	148,355	57,804	44,613	8534	—	259,296	259,296	259,296	60,785	10,837	83,947			
Apr.-June	13,263	40,653	17,549	3914	1,582	175,349	175,349	175,349	8,893	13,149	108,889			
July-Sept.	32,755	18,903	10,775	2,385	—	66,460	66,460	66,460	63,161	—	15,349	56,511		
Season						1,345	341,075	342,420	60,618	249,010	—	332,471		
<b>1955-56</b>														
Oct.-Dec.	3,931	1,757	217	2,628	1,416	9,949	373,522	383,471	—	34,723	74,651	—	108,700	
Jan.-Mar.	116,602	55,354	81,784	20,988	3	274,771	274,771	274,771	11,322	74,338	12,239	83,899		
Apr.-June	60,334	26,919	67,366	22,193	—	176,872	176,872	176,872	13,159	72,089	1,283	112,597		
July-Sept.	7,203	9,383	36,651	11,038	—	64,275	64,275	64,275	8,297	62,048	—	9,801	60,544	
Season						9,949	373,522	383,471	67,481	283,126	3,047	379,740		
<b>1956-57</b>														
Oct.-Dec.	1,995	1,076	291	369	—	3,737	449,446	453,177	—	36,612	81,507	7,705	125,824	
Jan.-Mar.	167,046	73,403	70,354	16,550	—	327,353	327,353	327,353	17,443	83,951	10,489	111,883		
Apr.-June	46,845	44,232	9,716	9,716	—	215,470	215,470	215,470	14,334	9,517	9,517	128,573		
July-Sept.	36,312	18,724	5,583	5,583	74	86,897	86,897	86,897	16,971	7,748	—	11,957		
Season						3,731	449,446	453,177	26,225	85,360	315,941	15,754	443,280	
<b>1957-58</b>														
Oct.-Dec.	3,633	1,242	1,493	3,539	—	9,897	483,715	493,612	—	39,213	85,728	—	113,154	
Jan.-Mar.	188,359	89,243	78,863	23,993	—	380,458	380,458	380,458	14,898	89,035	22,102	126,045		
Apr.-June	116,152	62,301	57,928	17,977	—	254,413	254,413	254,413	9,239	9,592	1,470,73			
July-Sept.	26,529	33,778	36,194	10,839	—	107,340	107,340	107,340	14,542	86,662	—	97,443		
Season						9,897	483,715	493,612	28,236	85,507	353,806	4,980	472,529	
<b>1958-1959</b>														
Oct.-Dec.	2,183	9,610	4,643	2,635	2,012	21,083	57,413	595,496	—	—	—	—		

1/ Oct. 1 stocks in all positions include only old crop soybeans. 2/ Owned by Commodity Credit Corporation in transit to ports, production and quantity used for seed estimated by Bureau of the Census. 3/ Imports negligible. 4/ Mostly reporting board; exports and quantity crushed from Agricultural Marketing Service.

# SOYBEAN OIL MEAL PRODUCTION

Soybean oil meal and cake: Supply and utilization in the U. S. 1924-58 (1,000 tons)

Year beginning Oct. 1	Stocks (Oct. 1)	Supply			Utilization		
		Domestic production	Imports	Total supply	Exports	Food, industry and other non-feed*	Feed
1924-25	—	7.6	18.3	25.9	—	—	25.9
1925-26	—	8.6	19.8	28.4	—	—	28.4
1926-27	—	8.3	23.9	32.2	—	—	32.2
1927-28	—	13.7	47.7	61.4	—	—	61.4
1928-29	—	21.5	69.5	91.0	—	—	91.0
1929-30	—	40.7	73.5	114.2	—	—	114.2
1930-31	—	98.6	24.0	122.6	—	—	122.6
1931-32	—	114.7	18.6	133.3	—	—	133.3
1932-33	—	84.3	28.3	112.6	—	—	112.6
1933-34	—	73.9	25.0	98.9	—	—	98.9
1934-35	—	220.4	64.2	284.6	—	18.0	266.6
1935-36	—	613.1	20.0	633.1	—	19.0	614.1
1936-37	—	495.8	55.7	551.5	—	20.0	531.5
1937-38	—	724.1	15.5	739.6	—	21.0	718.6
1938-39	—	1,064.4	12.3	1,076.7	35.0	22.0	1,019.7
1939-40	—	1,348.8	12.1	1,360.9	62.3	23.0	1,275.6
1940-41	—	1,543.4	8.1	1,551.5	25.4	35.0	1,491.1
1941-42	—	1,844.9	0	1,844.9	19.7	40.1	1,785.1
1942-43	—	3,200.3	0	3,200.3	20.9	105.5	3,073.9
1943-44	—	3,446.0	0	3,446.0	16.1	107.1	3,322.8
1944-45	—	3,698.5	0	3,698.5	10.0	61.4	3,627.1
1945-46	—	3,837.3	—	3,837.3	.9	181.4	3,655.0
1946-47	—	4,086.4	0	4,086.4	141.7	199.3	3,745.4
1947-48	—	3,832.7	0	3,832.7	95.7	353.8	3,383.2
1948-49	—	4,330.5	3.2	4,333.7	150.6	44.0	4,139.1
1949-50	13.3	4,585.6	26.1	4,625.0	47.4	25.0	4,517.4
1950-51	35.2	5,896.8	32.8	5,964.8	181.1	30.0	5,718.2
1951-52	35.5	5,703.7	24.1	5,763.3	41.8	30.0	5,640.0
1952-53	51.5	5,551.3	41.1	5,643.9	46.8	30.0	5,510.3
1953-54	56.8	5,050.6	15.6	5,123.0	65.5	30.0	4,964.9
1954-55	61.6	5,704.8	—	5,766.4	271.7	30.0	5,427.5
1955-56	37.2	6,545.8	—	6,583.0	400.4	30.0	6,041.3
1956-57	111.3	7,509.6	.1	7,622.1	443.2	30.0	7,093.1
1957-58	54.7	8,284.3	—	8,284.3	300.0	30.0	8,284.3
1958-59**	48.1	—	—	—	—	—	—

\* Estimated. \*\* Preliminary. Source of data: Agricultural Marketing Service, U. S. Department of Agriculture.

Production of soybean oil meal by months and crop years, 1948-58 (1,000 tons)

1948-49	1949-50	1950-51	1951-52	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58
Oct. 328.5	414.5	453.3	500.4	539.5	505.1	499.6	580.0	657.1	652.3
Nov. 383.0	406.4	536.1	536.5	518.6	481.6	507.3	583.6	631.4	683.2
Dec. 395.3	407.2	576.0	542.3	506.7	494.3	484.6	548.7	643.8	663.3
Jan. 398.7	402.8	590.4	563.8	506.5	492.7	491.3	567.0	674.9	725.9
Feb. 367.8	364.8	529.3	525.0	442.7	438.4	450.5	563.2	630.0	628.1
Mar. 403.9	422.9	580.9	494.7	485.5	456.7	444.3	584.4	688.8	718.4
April 376.8	403.5	512.3	467.2	456.1	420.7	456.2	583.6	650.0	737.8
May 364.2	394.2	499.9	457.9	488.6	416.3	480.0	570.2	636.1	759.2
June 355.9	323.3	418.2	435.1	404.2	364.5	509.4	517.3	592.8	669.6
July 357.6	364.0	413.4	410.8	387.6	368.1	493.5	475.3	583.0	714.7
Aug. 318.9	363.7	441.9	418.6	445.0	354.5	458.6	513.0	604.2	740.5
Sept. 279.9	318.3	345.0	351.4	370.3	257.7	429.5	459.5	517.5	591.3
Total 4,330.5	4,585.6	5,896.8	5,703.7	5,551.3	5,050.6	5,704.8	6,545.8	7,509.6	8,284.3

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## SOYBEAN OIL MEAL PRODUCTION—(Continued)

**Soybean cake and meal: Production, stocks, foreign trade and domestic disappearance 1949-58 (1,000 tons)**

Item	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
<b>1949-50</b>													
Stocks 1/	13.3	35.9	42.5	47.4	62.4	70.7	77.7	86.8	83.6	66.0	50.0	49.2	
Production	414.5	406.4	407.2	402.8	364.8	422.9	403.5	394.2	323.3	364.0	363.7	318.3	4,585.6
Imports	.1	.2	1.3	2.5	1.4	.7	.7	1.0	1.6	5.9	5.5	5.2	26.1
Exports	3.1	3.3	2.3	11.0	1.5	2.0	12.1	2.5	2.9	.8	1.9	4.0	47.4
Disappearance 2/	388.9	396.7	401.3	379.3	356.4	414.6	383.0	395.9	339.6	385.1	368.1	333.5	4,542.4
<b>1950-51</b>													
Stocks 1/	35.2	41.2	54.6	72.4	92.7	104.4	141.2	172.3	180.0	148.8	108.7	68.5	
Production	453.3	536.1	576.0	590.4	529.3	580.9	512.3	499.9	418.3	413.4	441.9	345.0	5,896.8
Imports	2.3	3.4	4.3	3.8	4.0	4.2	3.2	2.0	3.0	1.6	.7	.3	32.8
Exports	2.9	3.3	2.2	4.8	32.6	83.7	22.3	3.8	11.8	3.3	5.8	4.6	181.1
Disappearance 2/	446.7	522.8	560.3	569.1	489.0	464.6	462.1	490.4	440.7	451.8	477.0	373.7	5,748.2
<b>1951-52</b>													
Stocks 1/	35.5	27.1	30.5	34.1	32.7	46.7	54.0	57.0	59.0	57.8	71.3	63.7	
Production	500.4	536.5	542.3	563.8	525.0	494.7	467.2	457.9	435.1	410.8	418.6	351.4	5,703.7
Imports	1.1	.5	.8	1.9	.9	1.2	1.0	2.7	2.6	2.9	4.1	4.4	24.1
Exports	3.3	9.3	10.5	3.5	3.8	3.9	1.9	1.6	1.6	.7	1.2	.5	41.8
Disappearance 2/	506.6	524.3	529.0	563.6	508.1	484.7	463.3	457.0	437.3	399.5	429.1	367.5	5,670.0
<b>1952-53</b>													
Stocks 1/	51.5	60.5	78.1	89.2	109.2	139.4	154.2	167.3	172.8	168.7	118.4	102.3	
Production	539.5	518.6	506.7	506.5	442.7	485.5	456.1	488.6	404.2	387.6	445.0	370.3	5,551.3
Imports	5.3	7.2	8.1	4.5	4.2	5.8	3.6	1.2	.8	.2	.1	.1	41.1
Exports	1.5	2.0	1.6	2.0	1.9	1.5	2.7	6.4	2.8	4.3	9.8	10.3	46.8
Disappearance 2/	534.3	506.2	502.1	489.0	414.8	475.0	443.9	477.9	406.3	433.8	451.4	405.6	5,540.3
<b>1953-54</b>													
Stocks	56.8	56.8	78.1	104.8	128.6	162.5	170.7	182.2	177.4	166.9	175.2	150.7	
Production	505.1	481.6	494.3	492.7	438.4	456.7	420.7	416.3	364.5	368.1	354.5	257.7	5,050.6
Imports	3/	.0	.1	.8	3.9	1.0	.9	1.9	3.7	1.4	1.1	.8	15.6
Exports	9.3	14.1	12.1	4.0	5.1	5.1	3.6	3.8	2.4	1.4	2.1	3.5	66.5
Disappearance	495.8	446.2	455.6	465.7	403.3	444.4	406.5	419.2	376.3	359.8	378.0	344.1	4,994.9
<b>1954-55</b>													
Stocks	61.6	58.3	47.9	47.1	59.5	91.0	100.4	113.4	100.8	99.4	98.3	69.2	
Production	499.6	507.3	484.6	491.3	450.5	444.3	456.2	480.0	509.4	493.5	458.6	429.5	5,704.8
Imports	33.0	51.2	25.6	27.4	9.7	13.3	6.9	7.7	15.7	30.3	23.0	27.9	271.7
Exports													
Disappearance	469.9	466.5	459.8	451.5	409.3	421.6	436.3	484.9	495.1	464.3	464.7	433.6	5,457.5
<b>1955-56</b>													
Stocks	37.2	49.0	59.8	66.4	99.9	137.5	178.0	201.5	212.8	217.9	182.7	145.8	
Production	580.0	583.6	548.7	567.0	563.2	584.4	583.6	570.2	517.3	475.3	513.0	459.5	6,545.8
Imports	31.4	45.3	64.8	35.6	42.0	28.9	29.9	22.5	19.7	19.8	29.0	31.5	400.4
Exports													
Disappearance	536.8	527.5	477.3	497.9	483.6	515.0	530.2	536.4	492.5	490.7	520.9	462.5	6,071.3
<b>1956-57</b>													
Stocks	111.3	57.2	51.5	65.4	58.3	88.9	136.9	162.0	163.2	157.1	129.0	93.6	
Production	657.1	631.4	643.8	674.9	630.0	688.8	650.0	636.1	592.8	583.0	604.2	517.5	7,509.6
Imports	57.9	55.4	64.1	49.5	31.7	33.3	20.2	20.5	34.1	29.0	24.4	23.1	443.2
Exports													
Disappearance	653.3	581.7	565.8	632.5	567.7	607.5	604.8	614.4	564.8	582.1	615.2	533.3	7,123.1
<b>1957-58</b>													
Stocks	54.7	58.6	88.1	75.7	78.7	73.4	81.7	74.5	104.7	82.3	61.3	84.6	
Production	652.3	683.2	663.3	725.9	628.1	718.4	737.8	759.2	669.6	714.7	740.5	591.3	8,284.3
Imports	27.9	37.7	28.8	38.5	20.9	25.9	16.0	20.3	25.1	18.0	17.4	23.5	300.0
Exports													
Disappearance	620.5	616.0	646.9	684.4	612.5	684.2	730.4	708.7	666.9	717.7	699.8	604.3	7,992.3

1/ Stocks at crushers' plants. 2/ Domestic disappearance, based on production, imports, exports, and change in crushers' stocks. 3/ Less than 50 tons. Compiled from reports of the Bureau of the Census and the Agricultural Marketing Service.

## SOYBEAN OIL, MEAL AND CAKE PRODUCTION AND STOCKS BY STATES

**Crude soybean oil and soybean cake and meal: Production and stocks by states, 1954-1957**

States	Crude soybean oil (1,000 pounds)				Soybean cake and meal (Tons of 2,000 pounds)			
	1957	1956	1955	1954	1957	1956	1955	1954
<b>United States</b> Production Stocks, end of year	3,475,103	3,200,448	2,826,710	2,377,885	7,575,977	6,765,819	5,925,728	5,060,969
<b>Arkansas</b> Production Stocks, end of year	59,432	(1)	(1)	7,811	129,004	(1)	(1)	20,859
	1,009	—	—	(1)	3,153	—	—	6,586
<b>Illinois</b> Production Stocks, end of year	1,287,222	1,228,350	1,183,674	970,590	2,659,268	2,447,170	2,319,351	1,919,282
	32,999	20,336	17,774	9,180	31,531	28,786	20,140	15,906
<b>Indiana</b> Production Stocks, end of year	338,748	332,592	295,065	279,961	748,332	714,842	630,159	611,337
	7,122	6,411	7,342	2,225	8,080	3,650	5,978	2,874
<b>Iowa</b> Production Stocks, end of year	547,690	537,759	488,580	430,458	1,247,852	1,168,384	1,072,743	954,601
	12,642	11,195	9,534	4,655	6,914	8,279	14,873	6,768
<b>Kansas</b> Production Stocks, end of year	(1)	35,596	(1)	24,857	(1)	83,497	72,236	57,337
	(1)	580	(1)	(1)	(1)	414	(1)	(1)
<b>Kentucky</b> Production Stocks, end of year	(1)	(2)75,203	44,361	61,690	(1)	160,736	141,179	131,574
	(1)	(1)	505	266	(1)	(1)	496	882
<b>Minnesota</b> Production Stocks, end of year	238,008	209,936	174,781	146,788	550,045	455,537	388,711	335,013
	(1)	8,262	5,019	2,392	3,795	2,276	2,476	3,193
<b>Mississippi</b> Production Stocks, end of year	72,868	(1)	(1)	20,015	149,473	(1)	(1)	45,469
	3,150	—	—	398	1,192	—	—	838
<b>Missouri</b> Production Stocks, end of year	128,659	(2)115,216	73,759	95,335	286,444	256,146	222,095	208,468
	1,853	1,475	1,549	910	2,064	1,808	2,997	1,280
<b>Nebraska</b> Production Stocks, end of year	(1)	1,417	(1)	(1)	(1)	3,871	22,884	(1)
	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>North Carolina</b> Production Stocks, end of year	14,931	(2)6,731	1,010	(1)	39,765	17,634	7,580	(1)
	988	664	(1)	(1)	1,335	822	1,793	784
<b>Ohio</b> Production Stocks, end of year	328,660	329,296	274,087	249,393	752,191	729,979	607,790	562,184
	10,217	3,778	4,072	2,961	3,227	6,458	3,043	3,345
<b>Oklahoma</b> Production Stocks, end of year	(1)	(1)	(1)	—	(1)	(1)	(1)	—
	(1)	—	—	—	(1)	—	—	—
<b>Tennessee</b> Production Stocks, end of year	239,292	—	—	—	513,553	(1)	(1)	(1)
	2,650	—	—	—	6,727	(1)	(1)	(1)
<b>All other states</b> Production Stocks, end of year	219,593	327,952	291,393	90,987	500,050	728,023	441,000	214,845
	32,885	7,309	12,201	1,390	7,685	12,911	14,593	4,648

(1) Included in "All other states" to avoid disclosure of figures for individual companies. (2) Less than 12 months reported. From Bureau of Census.

## OILSEED CAKE AND MEALS: SUPPLY AND DISTRIBUTION

Oilseed cakes and meals: Supply and distribution, United States, year beginning October 1949-58  
(1,000 tons)

Oilseed cake and meal	Stocks (Oct. 1) 1/	Supply			Feed	Distribution		
		Production	Imports	Total		Other uses 2/	Exports (Sept. 30)	Stocks 1/
<b>1949-50</b>								
Soybean	13	4,586	26	4,625	4,518	25	47	35
Cottonseed	98	2,497	105	2,700	2,382	40	124	154
Linseed	39	689	5	733	670	--	7	56
Peanut	1	139	6	146	94	--	49	3
Copra	7	154	57	218	204	--	0	14
Total	158	8,065	199	8,422	7,868	65	227	262
<b>1950-51</b>								
Soybean	35	5,897	33	5,965	5,718	30	181	36
Cottonseed	154	1,723	91	1,968	1,854	30	13	71
Linseed	56	730	1	787	732	--	29	26
Peanut	3	151	1	155	130	--	24	1
Copra	14	149	66	229	226	--	1	2
Total	262	8,650	192	9,104	8,660	60	248	136
<b>1951-52</b>								
Soybean	36	5,704	24	5,764	5,640	30	42	52
Cottonseed	71	2,524	202	2,797	2,650	30	35	82
Linseed	26	495	23	544	520	--	7	17
Peanut	1	95	5	101	99	--	2	*
Copra	2	122	104	228	221	--	*	7
Total	136	8,940	358	9,434	9,130	60	86	158
<b>1952-53</b>								
Soybean	52	5,551	41	5,644	5,510	30	47	57
Cottonseed	82	2,673	136	2,891	2,664	30	55	3/142
Linseed	17	458	26	501	478	--	*	23
Peanut	1	42	4	46	44	--	*	2
Copra	7	116	97	220	214	--	0	6
Total	158	8,840	304	9,302	8,910	60	102	3/230
<b>1953-54</b>								
Soybean	57	5,051	16	5,124	4,965	30	67	62
Cottonseed	142	3,019	70	3,231	2,930	30	66	205
Linseed	23	577	1	601	527	--	34	40
Peanut	2	63	1	66	64	--	1	1
Copra	6	116	80	202	196	--	0	6
Total	230	8,826	168	9,224	8,682	60	168	314
<b>1954-55</b>								
Soybean	62	5,705	0	5,767	5,428	30	272	37
Cottonseed	205	2,515	32	2,752	2,404	30	168	150
Linseed	40	545	0	585	488	--	75	22
Peanut	1	19	0	20	18	--	1	1
Copra	6	117	63	186	182	--	0	4
Total	314	8,901	95	9,310	8,520	60	516	214
<b>1955-56</b>								
Soybean	37	6,546	0	6,583	6,042	30	400	111
Cottonseed	150	2,628	59	2,837	2,510	30	156	141
Linseed	22	582	0	604	440	--	153	12
Peanut	1	58	0	59	27	--	30	2
Copra	4	112	45	161	160	--	0	1
Total	214	9,926	104	10,244	9,179	60	739	267
<b>1956-57 3/</b>								
Soybean	111	7,510	0	7,621	7,092	30	443	55
Cottonseed	141	2,294	55	2,490	2,216	30	30	210
Linseed	12	576	2	590	486	--	43	64
Peanut	2	63	0	65	47	--	15	3
Copra	1	113	67	181	180	--	*	1
Total	267	10,556	124	10,947	10,021	60	531	333
<b>1957-58 3/</b>								
Soybean	55	8,284	1	8,340	7,962	30	300	48
Cottonseed	210	1,922	72	2,204	2,096	30	7	71
Linseed	64	435	8	507	467	--	14	26
Peanut	3	45	0	48	44	--	2	2
Copra	1	119	68	188	187	--	0	1
Total	333	10,805	149	11,287	10,756	60	323	148

1/ Stocks at processors' plants. 2/ Estimated quantities of soybean meal used for industrial purposes and cottonseed meal used for fertilizer on farms of cotton growers. 3/ Preliminary. \*Less than 500 tons. USDA Agricultural Marketing Service.

## PRODUCTION OF PROTEIN CONCENTRATES

Production of specified protein concentrates in the United States, year beginning Oct. 1, 1937-41 average and 1950-58 (thousands of tons)

Protein concentrate	Average 1937- 1941	1950- 1951	1951- 1952	1952- 1953	1953- 1954	1954- 1955	1955- 1956	1956- 1957	1957- 1958*
Soybean cake and meal	1,305	5,897	5,704	5,551	5,051	5,705	6,546	7,510	8,284
Linseed cake and meal	616	730	495	458	577	545	582	576	435
Cottonseed cake and meal	2,057	1,723	2,524	2,681	3,014	2,515	2,628	2,294	1,922
Peanut cake and meal	67	151	94	42	63	19	58	63	45
Copra cake and meal	76	149	122	116	116	117	112	113	119
Gluten feed and meal	731	1,066	911	955	1,001	1,034	1,072	1,010	1,031
Tankage and meat scraps	656	858	912	1,013	1,060	1,339	1,557	1,502	1,400
Fish cake and meal	194	214	197	221	230	294	342	298	282
Dried milk products**	142	100	110	115	395	165	135	120	115
Other milk products†	1,829	1,350	1,265	1,250	1,225	1,165	1,105	1,050	1,000
<b>TOTAL</b>	<b>7,673</b>	<b>12,238</b>	<b>12,334</b>	<b>12,402</b>	<b>12,732</b>	<b>12,898</b>	<b>14,137</b>	<b>14,536</b>	<b>14,633</b>

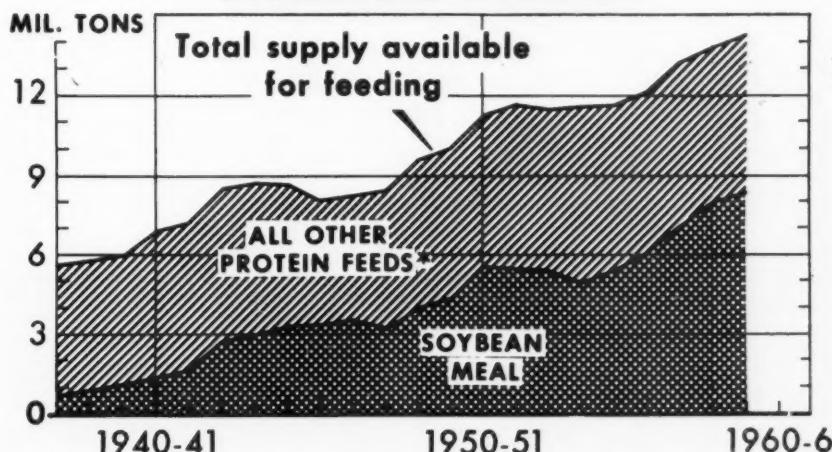
\*Preliminary. \*\*Dried and concentrated skim milk, buttermilk, and whey manufactured for animal feed. †Dry equivalent of skim milk, buttermilk, whey, and whole milk estimated fed on farms. Source of data: Agricultural Marketing Service, U. S. Department of Agriculture.

Protein concentrates: Estimated use for feed in the United States, year beginning Oct. 1, 1937-41 average and 1950-58\* (thousands of tons)

Protein concentrate	Average 1937- 1941	1950- 1951	1951- 1952	1952- 1953	1953- 1954	1954- 1955	1955- 1956	1956- 1957	1957- 1958**
Soybean cake and meal	1,258	5,718	5,640	5,510	4,965	5,428	6,042	7,093	7,962
Linseed cake and meal	481	732	520	478	527	488	439	484	467
Cottonseed cake and meal	1,958	1,853	2,650	2,671	2,926	2,405	2,511	2,220	2,096
Peanut cake and meal	74	130	99	44	64	17	27	46	44
Copra cake and meal	134	226	220	213	196	182	160	181	187
Gluten feed and meal	731	1,066	911	955	1,001	1,034	1,072	1,010	1,031
Tankage and meat scraps	728	882	946	1,032	1,078	1,339	1,557	1,502	1,400
Fish cake and meal	235	332	438	390	438	395	464	402	394
Dried milk products	142	100	110	115	395	165	135	120	115
Other milk products†	1,829	1,350	1,265	1,250	1,225	1,165	1,105	1,050	1,000
<b>TOTAL</b>	<b>7,570</b>	<b>12,389</b>	<b>12,799</b>	<b>12,658</b>	<b>12,815</b>	<b>12,618</b>	<b>13,512</b>	<b>14,108</b>	<b>14,696</b>

\*Domestic production plus imports, minus exports, and minus estimated utilization for food, industry and other nonfeed uses. \*\*Preliminary. \$Dried and concentrated skim milk, buttermilk, and whey manufactured for animal feed. †Dry equivalent of skim milk, buttermilk, whey, and whole milk estimated fed on farms. Source of data: Agricultural Marketing Service, U. S. Department of Agriculture.

## SUPPLY OF HIGH PROTEIN FEEDS INCREASES STEADILY



Year beginning October. \*Other oilseed meals: Animal, marine and grain protein feeds; in terms of soybean meal equivalent. 1958-59 based on September indications. Agricultural Marketing Service.

## U. S. SOY FLOUR PRODUCTION

Soybeans used in the production of soy flour and grits, year beginning Oct. 1, 1942-58\*  
(1,000 bu.)

	Low Fat	Full Fat
1942-43	4,645	1,875
1943-44	4,470	1,605
1944-45	1,865	910
1945-46	8,278	1,061
1946-47	9,193	440
1947-48	17,119	162
1948-49	3,445	198
1949-50	3,715	228
1950-51	2,915	236
1951-52	3,426	255
1952-53	2,799	254
1953-54	3,111	225
1954-55, Total		5,405
1955-56, Total		6,019
1956-57, Total		5,687
† 1957-58, Total		5,621

\* Estimated from reports on production of soy flour on basis that one bushel of soybeans will yield either 39 lbs. of low fat flour or 48 lbs. of full fat flour. † Based on 40 lbs. of soy flour per bushel of soybeans. Bureau of the Census no longer collects separate data on the production of full fat and low fat soy flour, but reports only total production.

## PRODUCTION, EXPORTS SOY FLOUR AND GRITS

Soy flour and grits: U. S. production and exports, 1935-58 (1,000 lbs.)

Year beginning Oct. 1	Full fat products	Production* Low fat and defatted products	Total	Exports		
				Commercial †	Military §	Total
1935-36			22,000			
1936-37			24,000			
1937-38			26,000			
1938-39			28,000			
1939-40			30,000			
1940-41			50,000			
1941-42	28,000	56,125	84,125			
1942-43	90,600	181,000	271,600	22,971		22,971
1943-44	77,185	174,280	251,465	100,540		100,540
1944-45	43,925	72,715	116,640	58,460	14,374	72,834
1945-46	50,914	322,761	373,675	183,642	3,604	187,246
1946-47	21,263	358,537	379,800	105,814	135,223	241,037
1947-48	7,746	667,633	675,379	479,674	74,879	554,553
1948-49	9,492	134,356	143,848	56,186		56,186
1949-50	10,960	144,874	155,834			
1950-51	11,348	113,680	125,028	7,435		
1951-52	12,248	133,626	145,874	7,925		
1952-53	12,182	109,162	121,344	4,778		
1953-54	10,808	121,310	132,118	5,095		
1954-55			216,204	5,144		
1955-56			240,752	4,924		
1956-57			227,490	5,475		
1957-58			224,830	1/1,194		

\* Based on reports of the Soy Flour Association supplemented by information furnished the War Food Administration by the industry for 1935-48 and the Bureau of the Census for 1949 to date. Data for 1935-41 are rough approximations used during the war years since no exact data were available.

† Reported by the Bureau of the Census—not available prior to 1943. Thus the first figure is for January-September 1943 only. Includes exports under the Lend Lease program. §Shipments for military relief feeding furnished by the National Military Establishments for 1944-46 and by the Bureau of the Census for 1947. Beginning with January 1948 included with commercial exports. The export figures do not include purchases by the Military for its own use. Compiled by Agricultural Marketing Service, U. S. Department of Agriculture. 1/ October-December 1957—Not classified separately beginning January 1958.

# FATS AND OILS PRODUCTION

Estimated production of fats and oils from domestic materials and oil equivalent of exported domestic oilseeds, year beginning October with comparisons (million lbs.)

	Average 1937-41	1951	1952	1953	1954	1955	1956	1957 1/	1958 2/
Butter (actual weight)	2,224	1,376	1,578	1,647	1,536	1,568	1,549	1,540	1,550
Lard and rendered pork fat	2,091	2,918	2,509	2,248	2,564	2,851	2,624	2,440	2,725
Edible beef fats 3/	225	173	218	264	280	312	321	320	330
Total, edible animal fats	4,540	4,467	4,305	4,159	4,380	4,731	4,494	4,300	4,605
Corn oil	173	223	258	252	268	270	275	275	280
Cottonseed oil	1,456	1,726	1,840	2,106	1,723	1,893	1,626	1,440	1,575
Edible olive oil	7	4	7	2	3	1	6	1	5
Peanut oil	87	123	53	82	20	81	84	63	140
Peanuts (shelled), oil equivalent of exports for crushing abroad 4/				69	4	23	5		
Soybean oil	500	2,444	2,536	2,350	2,711	3,142	3,431	3,800	5,900
Soybeans, oil equivalent of exports 5/	31	167	320	416	666	741	937	950	
Total, edible vegetable oils	2,254	4,678	5,010	5,272	5,384	6,132	6,382	6,534	7,900
Inedible tallow and greases	1,303	2,268	2,616	2,661	2,839	3,145	3,007	2,700	2,800
Fish, whale and seal oils 6/	223	126	148	161	180	204	153	150	160
Total, soap fats and oils	1,526	2,394	2,764	2,822	3,019	3,349	3,160	2,850	2,960
Linseed oil 7/	363	554	501	631	588	625	635	535	575
Flaxseed, oil equivalent of exports 8/		55	9/	122	133	196	186		
Tung oil	1	15	43	40	15	2	32	26	40
Castor oil		8	11	8	4	1	3	9	25
Total drying oils	364	632	555	801	740	824	856	570	640
Other fats and oils 10/	5	28	36	31	42	31	43	40	50
GRAND TOTAL	8,689	12,206	12,670	13,085	13,565	15,067	14,935	14,294	16,155

1/ Preliminary. 2/ Forecasts. 3/ Edible tallow, oleo stock, oleo oil, and oleostearine. Beginning January 1949, use of edible tallow in pressing is subtracted from reported production of tallow. 4/ 43% of actual weight. 5/ 9 pounds per bushel, 1937-41, 9.8 pounds in 1950-51; 10.0 pounds in 1952; 11 pounds in 1953-56. 6/ Excludes cod oil and fish liver oils. 7/ Excludes oil equivalent of imported flaxseed. 8/ 19.8 pounds per bushel. 9/ Less than 500,000 pounds. 10/ Neat's foot oil, wool grease, cod and fish-liver oils, and vegetable oils not reported separately by kind. Totals computed from unrounded numbers.

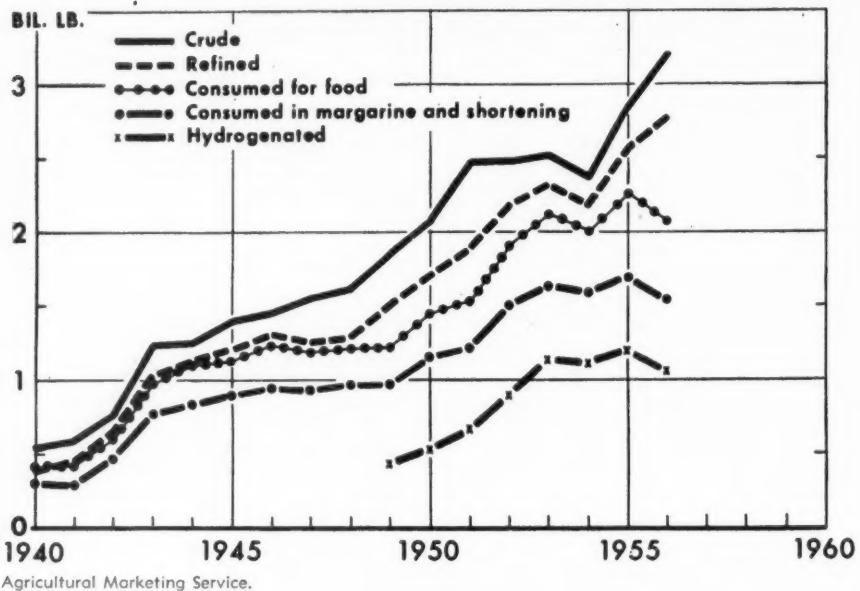
## PRODUCTION OF SOYBEAN OIL

Soybean oil: Production, trade, stocks, Dec. 31 and apparent disappearance, 1930-58 (million lbs.)

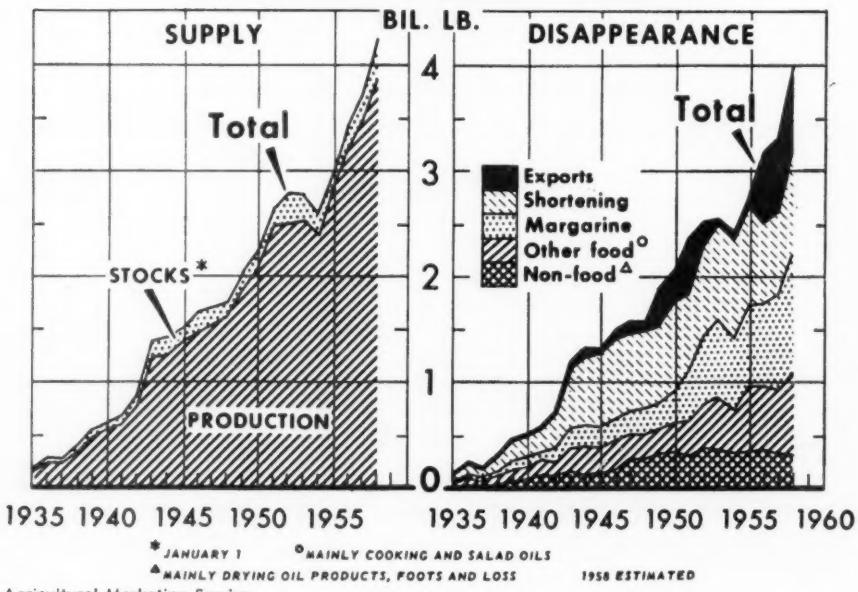
Year	Factory production	Imports	Exports 1/	Factory and warehouse stocks Dec. 31	Apparent disappearance
1930	14	11	5	15	20
1935	105	14	4	30	103
1940	533	5	17	93	498
1941	586	1	14	110	555
1942	762		20	140	711
1943	1,234	2/	57	181	1,136
1944	1,246	--	78	120	1,229
1945	1,392	2/	41	205	1,266
1946	1,454	--	89	160	1,410
1947	1,543	2/	110	142	1,451
1948	1,604	2/	86	188	1,473
1949	1,859	2/	367	150	1,531
1950	2,075	2/	302	154	1,769
1951	2,473	--	504	281	1,842
1952	2,478	2/	223	237	2,299
1953	2,515	--	49	208	2,496
1954	2,378	--	77	176	2,334
1955	2,827	--	134	218	2,650
1956	3,200	--	679	233	2,506
1957	3,475	--	685	406	2,617
1958 Jan.-Sept.	2,879	--	259	231 Sept. 30	2,350

1/ Includes shipments and voluntary relief. 2/ Less than 500,000 lbs.

# **PRODUCTION AND USE OF SOYBEAN OIL**



## **SOYBEAN OIL PRODUCTION CONTINUES SHARP CLIMB**



Agricultural Marketing Service

1958 ESTIMATED

# SOYBEAN OIL UTILIZATION

**Soybean oil: Utilization by classes of products, United States, 1931-58 (Million lbs.)**

Year	<b>—Food products—</b>					<b>—Non-food products—</b>						<b>Total domestic disappearance</b>
	Margarine	Shortening	Other	Total	Soap	Paint varnish	Other drying prod.	Misc. oil non-food	Loss incl. oil in foods	Total		
	1	11	7	19	4	6	4	1	2	16	35	
1931	1/	5	14	19	6	7	5	1	1	20	39	
1932	1/	1/	7	8	4	9	5	1	1	22	30	
1933	1/	3	10	13	2	10	4	1	1	18	31	
1934	2	52	21	75	3	13	6	1	5	28	103	
1935	14	114	59	187	5	14	5	2	9	35	222	
1936	32	91	20	143	10	16	3	1	10	40	183	
1937	40	137	79	256	11	15	7	2	14	49	305	
1938	71	202	116	389	11	22	12	4	16	65	454	
1939	87	212	107	406	18	30	16	7	21	92	498	
1940	76	216	139	431	25	42	21	11	26	124	555	
1941	133	336	130	599	32	25	8	6	41	112	711	
1942	198	568	207	974	15	20	18	15	93	162	1136	
1943	211	620	274	1106	3	19	18	14	69	123	1229	
1944	207	683	244	1133	4	26	20	16	66	133	1266	
1945	201	744	294	1238	4	30	37	24	77	172	1410	
1946	228	705	248	1181	5	89	69	37	69	270	1451	
1947	255	708	240	1203	3	100	62	32	73	270	1473	
1948	257	713	239	1210	2	124	97	20	80	321	1531	
1949	312	841	295	1448	2	117	96	25	82	323	1771	
1950	473	731	331	1536	2	88	106	26	84	306	1842	
1951	652	851	408	1911	2	120	88	73	104	386	2299	
1952	728	912	510	2150	1	104	81	62	98	345	2496	
1953	665	918	419	2002	1	139	70	35	86	331	2334	
1954	746	930	584	2260	1	184	90	7	108	390	2650	
1955	752	782	621	2155	1	114	81	49	107	351	2506	
1956	874	796	626	2296	1/	109	81	23	107	320	2617	
1957	783	759	563	2105	1/	76	42	22	105	245	2350	
1958 (Jan.-Sept.)												

1/ Less than 500,000 lbs.

### Percentage of total domestic disappearance

Year	Margarine	Shortening	Other	Total	Soap	Paint and varnish	Other drying prod.	Misc. non-food	Loss incl. oil in foods	Total	<b>Total domestic disappearance</b>
	1	11	7	19	4	6	4	1	2	16	100.0
1931	1.8	31.4	20.0	54.3	11.4	17.1	11.4	1.8	5.7	45.7	100.0
1932	1/	12.8	35.9	48.7	15.4	17.9	12.8	2.7	2.7	51.3	100.0
1933	1/	1/	23.3	26.7	13.4	30.0	23.3	3.3	3.3	73.3	100.0
1934	1/	9.6	32.3	41.9	4.5	32.3	12.9	3.2	3.2	58.1	100.0
1935	1.9	50.5	20.4	72.8	2.9	12.6	5.8	1.0	4.9	27.2	100.0
1936	6.3	51.3	26.6	84.2	2.3	6.3	2.3	.9	4.0	15.8	100.0
1937	17.5	49.7	10.9	78.1	5.5	8.7	1.6	.6	5.5	21.9	100.0
1938	13.1	44.9	25.9	83.9	3.6	4.9	2.3	.7	4.6	16.1	100.0
1939	15.6	44.5	25.6	85.7	2.4	4.8	2.7	.9	3.5	14.3	100.0
1940	17.5	42.6	21.4	81.5	3.6	6.0	3.2	1.4	4.3	18.5	100.0
1941	13.7	38.9	25.1	77.7	4.5	7.5	3.7	1.9	4.7	22.3	100.0
1942	18.7	47.2	18.3	84.2	4.5	3.6	1.1	.8	5.8	15.8	100.0
1943	17.4	50.0	18.3	85.7	1.3	1.8	1.6	1.3	8.2	14.3	100.0
1944	17.2	50.5	22.3	90.0	.3	1.5	1.5	1.1	5.6	10.0	100.0
1945	16.3	53.9	19.3	89.5	.3	2.1	1.6	1.3	5.2	10.5	100.0
1946	14.2	52.8	20.8	87.8	.3	2.1	2.6	1.7	5.5	12.2	100.0
1947	15.7	48.6	17.1	81.4	.3	6.1	4.8	2.6	4.8	18.6	100.0
1948	17.3	48.1	16.3	81.7	.2	6.8	4.2	2.2	4.9	18.3	100.0
1949	16.8	46.6	15.6	79.0	.1	8.1	6.3	1.3	5.2	21.0	100.0
1950	17.6	47.5	16.7	81.8	.1	6.6	5.4	1.4	4.7	18.2	100.0
1951	25.7	39.7	18.0	83.4	.1	4.8	5.8	1.4	4.5	16.6	100.0
1952	28.4	37.0	17.8	83.2	.1	5.2	3.8	3.2	4.5	16.8	100.0
1953	29.2	36.5	20.4	86.1	.1	4.2	3.2	2.5	3.9	13.8	100.0
1954	28.5	39.3	18.0	85.8	1/	6.0	3.0	1.5	3.7	14.2	100.0
1955	28.2	35.1	22.0	85.3	1/	6.9	3.4	.3	4.1	14.7	100.0
1956	30.0	31.2	24.8	86.0	1/	4.5	3.2	2.0	4.3	14.0	100.0
1957	33.4	30.4	23.9	87.7	1/	4.2	3.1	.9	4.1	12.3	100.0
1958 (Jan.-Sept.)	33.3	32.2	23.9	89.4	1/	3.3	1.8	1.0	4.5	10.6	100.0

1/ Less than .05 percent.

**Additional copies of the Soybean Blue Book may be purchased from the American Soybean Association, Hudson, Iowa, by members for \$2.**

## SOYBEAN OIL UTILIZATION—(Continued)

**Soybean oil refined: Factory consumption, by uses, in the United States, 1952, 1953, 1954, 1955, 1956, 1957 and first three quarters of 1958 (thousand pounds)**

	1952	1953	1954	1955	1956	1957	1958†
Total consumption	2,073,020	2,227,154	2,183,263	2,487,144	2,760,565	2,674,220	2,658,355
Processing:							
Fat splitting							
Hydrogenation	895,033	1,141,800	1,108,665	1,185,240	1,125,550	1,255,058	1,181,365
Sulphonation	579	544	471				
Winterizing			126,722		48,786	51,768	38,102
Pressing							
Deodorizing (whole oil)	97,839	128,931	153,667	361,201	846,161	620,862	721,897
Other processing							
Edible products:							
Shortening	591,003	470,936	467,051	509,584	423,454	439,978	414,199
Margarine	80,425		62,417	79,046	71,738	89,243	82,271
Other edible	88,772	110,765	92,024	111,549	64,723	39,452	94,136
Inedible products:							
Soap	472	427	343	*	*	*	*
Chemicals		*	*	*	*	*	*
Paint and varnish	67,099	75,938	74,952	88,444	85,239	78,995	56,552
Lubricants & greases	159	193	165	391	377	356	122
Linoleum & oilcloth		10,462	*	*	*	*	*
Other inedible products	99,992	75,081	85,681	85,986	82,821	90,270	57,292

\* Not separately reported for part or all of period. †Reported for first three quarters only. Table prepared in Agricultural Marketing Service, USDA, from data reported by the Bureau of the Census.

**Soybean oil crude: Factory consumption, by uses, in the United States, 1952, 1953, 1954, 1955, 1956, 1957 and first three quarters of 1958 (thousand pounds)**

	1952	1953	1954	1955	1956	1957	1958†
Total consumption	2,354,113	2,497,720	2,336,045	2,772,287	3,030,550	2,899,411	2,721,552
Used in refining	2,279,862	2,409,225	2,256,446	2,666,689	2,872,130	2,850,220	2,691,551
Total use other than refining	74,251	88,495	79,599	105,598	158,420	49,191	30,021
Processing:							
Fat Splitting	*	5,918	*	*	3,056	1,731	1,231
Hydrogenation	*	174	210		*	*	*
Sulphonation							
Other processing	44,126		53,492	65,738	120,639	17,687	11,659
Edible products:							
Shortening							
Other edible	*				*	*	*
Inedible products:							
Soap	1,105	865	564	829	498	306	304
Chemicals		*	*		*	*	*
Paint and varnish	6,101	5,704	4,626	4,478	5,035	4,517	2,848
Lubricants & greases	414	441	180	457	188		
Linoleum & oilcloth	*	*	*	*	4,466		
Other inedible products	19,069	13,851	11,595	20,246	19,660	24,956	13,979

\* Not separately reported for part or all of period. †Reported for first three quarters only. Table prepared in Agricultural Marketing Service, USDA, from data reported by the Bureau of the Census.

## UTILIZATION OF SOYBEAN PRODUCTS

	Crop year 1957-58	Crop year 1956-57	Crop year 1955-56
	%	%	%
<b>Soybean Oil Meal</b>			
Livestock feed	97.3	96.2	96.4
Industrial	.2	.1	.5
Fertilizer			
Export	2.5	3.5	3.1
	100.0	100.0	100.0
<b>Soybean Oil</b>	%	%	%
Edible	89.5	82.5	89.7
Industrial	10.5	17.5	10.3
	100.0	100.0	100.0

National Soybean Processors Association

# PRICES OF U.S. SOYBEANS

**Soybeans: Average price received by farmers, monthly and season average, U. S. 1923-58**  
(Dollars per bushel)

Crop year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Season Ave.
1923-24	2.09	2.10	2.11	2.23	2.26	2.41	2.40	2.44	2.49	2.60	2.51	2.33	2.28
24-25	2.23	2.16	2.36	2.59	2.64	2.76	2.77	2.81	2.70	2.71	2.40	2.38	2.46
25-26	2.27	2.18	2.17	2.38	2.33	2.39	2.27	2.37	2.67	2.71	2.31	2.27	2.34
26-27	1.97	1.85	1.83	1.90	2.03	1.98	2.07	2.15	2.20	2.14	2.06	1.91	2.01
27-28	1.86	1.69	1.61	1.70	1.69	1.85	1.93	2.06	2.13	2.12	2.01	1.89	1.81
28-29	1.72	1.69	1.70	1.82	1.93	2.13	2.19	2.30	2.41	2.46	2.15	1.87	1.88
29-30	1.79	1.70	1.72	1.85	1.91	2.00	2.07	2.11	2.16	1.96	1.90	1.80	1.88
1930-31	1.64	1.48	1.44	1.46	1.40	1.42	1.38	1.39	1.29	1.12	.94	.82	1.37
31-32	.52	.47	.47	.47	.48	.51	.51	.52	.51	.47	.47	.47	.50
32-33	.46	.45	.44	.45	.45	.48	.58	.86	.98	1.04	.94	.85	.54
33-34	.68	.69	.73	.81	.101	1.16	1.26	1.25	1.45	1.54	1.25	1.05	.94
34-35	.95	.89	1.11	1.19	1.27	1.20	1.18	1.21	1.19	.98	.73	.69	.99
35-36	.68	.69	.72	.76	.77	.78	.78	.83	.85	1.05	1.19	1.10	.73
36-37	1.07	1.12	1.30	1.43	1.50	1.52	1.66	1.74	1.50	1.32	1.02	.90	1.27
37-38	.86	.83	.83	.88	.93	.89	.85	.87	.86	.85	.75	.71	.85
38-39	.64	.63	.67	.72	.69	.73	.78	.87	.83	.75	.64	.73	.67
39-40	.73	.82	.97	1.03	.96	1.01	1.00	.96	.79	.73	.67	.69	.81
1940-41	.67	.84	.81	.89	.84	.89	1.07	1.19	1.23	1.30	1.29	1.61	.90
41-42	1.42	1.43	1.47	1.65	1.78	1.79	1.76	1.73	1.63	1.62	1.58	1.57	1.55
42-43	1.58	1.58	1.59	1.59	1.60	1.65	1.67	1.72	1.73	1.70	1.68	1.69	1.61
43-44	1.80	1.80	1.81	1.82	1.85	1.89	1.91	1.93	1.93	1.91	1.90	1.93	1.81
44-45	2.04	2.05	2.05	2.06	2.10	2.13	2.13	2.15	2.17	2.16	2.12	2.07	2.05
45-46	2.06	2.09	2.09	2.09	2.11	2.12	2.14	2.16	2.17	2.31	2.35	2.13	2.08
46-47	2.28	3.09	2.75	2.93	3.00	3.67	3.62	3.01	3.07	3.09	3.07	3.05	2.57
47-48	3.11	3.43	3.69	4.11	2.97	3.23	3.64	3.74	3.90	3.66	2.91	2.45	3.33
48-49	2.27	2.36	2.38	2.27	2.05	2.12	2.08	2.18	2.10	2.27	2.60	2.14	2.27
49-50	2.09	1.95	2.09	2.11	2.12	2.25	2.48	2.71	2.80	2.93	2.42	2.26	2.16
1950-51	2.03	2.54	2.70	2.90	3.08	3.10	3.12	3.13	2.98	2.86	2.71	2.59	2.47
51-52	2.62	2.77	2.83	2.78	2.78	2.76	2.72	2.77	3.02	3.00	3.05	2.83	2.73
52-53	2.71	2.71	2.75	2.69	2.63	2.81	2.81	2.78	2.66	2.44	2.40	2.33	2.72
54-55	2.54	2.57	2.57	2.58	2.61	2.54	2.42	2.36	2.32	2.23	2.20	2.00	2.46
55-56	2.08	2.06	2.11	2.19	2.25	2.38	2.63	2.98	2.87	2.47	2.33	2.07	2.22
56-57	2.07	2.27	2.27	2.31	2.25	2.26	2.24	2.23	2.18	2.24	2.27	2.13	2.18
57-58	2.04	2.04	2.06	2.05	2.05	2.10	2.16	2.13	2.13	2.11	1.98	2.08	
58-59	1.93	1.89											

Source: Agricultural Marketing Service, U. S. Department of Agriculture. Monthly figures are average prices received by farmers on the 15th of the month. Season averages are crop-year average prices, by states, weighted by production to obtain U. S. average.

**Soybeans: Average monthly cash prices 1/ (Cents per bushel)**  
(Simple average of daily closing cash prices.)

Year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Ave.
<b>Chicago — No. 1 yellow</b>													
1946-47	325	322	310	315	325	400	370	316	315	338	332	321	332
1947-48	341	375	400	429	349	356	392	406	420	385	325	280	372
1948-49	251	264	263	253	251	228	226	232	232	261	320	267	254
1949-50	226	220	231	231	235	251	278	305	307	312	285	257	262
1950-51	235	284	306	321	332	333	333	332	315	307	299	287	307
1951-52	290	299	302	299	297	297	291	301	325	329	333	313	307
1952-53	295	297	300	299	291	303	305	297	286	267	267	259	289
1953-54	266	288	302	306	320	351	383	371	374	382	370	290	334
1954-55	276	284	282	281	279	270	260	254	248	245	242	230	263
1955-56	230	229	237	244	253	263	294	319	306	263	245	230	259
1956-57	232	253	250	253	245	244	243	239	233	245	245	233	243
1957-58	226	229	228	226	225	225	230	228	226	228	227	221	227
<b>Illinois country shipping points — No. 1 yellow</b>													
1946-47	322	317	288	307	320	393	362	312	312	330	317	314	325
1947-48	338	369	394	423	343	352	388	400	414	379	319	273	366
1948-49	243	255	252	240	218	220	215	225	220	250	277	220	236
1949-50	216	210	220	220	225	245	268	290	300	310	275	245	252
1950-51	230	272	295	310	325	325	325	324	304	294	287	277	297
1951-52	280	290	295	290	288	288	282	292	317	322	325	298	297
1952-53	285	289	290	285	282	294	295	287	276	256	255	247	278
1953-54	257	283	299	303	317	349	380	363	366	370	355	272	326
1954-55	269	274	273	274	274	263	254	246	242	236	239	224	256
1955-56	222	219	227	235	245	256	285	310	297	254	240	218	251
1956-57	221	242	239	243	235	235	235	229	226	234	240	219	233
1957-58	212	218	219	217	218	221	224	223	223	224	226	208	219

1/ Prior to October 1953 quotations are based on No. 2 yellow soybeans. Agricultural Marketing Service.

## PRICES OF U. S. SOYBEANS—(Continued)

**Soybeans: Average monthly cash prices 1/ (Cents per bushel)**  
**(Simple average of daily closing cash prices.)**

Year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Ave.
Minneapolis — No. 1 yellow													
1949-50	220	215	227	227	229	248	270	294	296	311	261	263	255
1950-51	231	269	289	304	323	329	331	326	301	294	284	281	297
1951-52	279	285	288	286	285	283	275	285	310	310	329	304	293
1952-53	277	282	284	276	272	285	286	276	267	255	245	242	270
1953-54	252	274	287	292	307	338	373	362	369	371	270	250	312
1954-55	262	268	267	267	266	254	248	243	237	228	226	216	248
1955-56	217	220	224	230	239	248	281	306	291	256	249	218	248
1956-57	227	242	236	239	232	234	232	228	226	232	231	219	232
1957-58	213	217	215	214	213	219	225	224	220	219	215	206	217

1/ Prior to October 1953 quotations are based on No. 2 yellow soybeans. Agricultural Marketing Service.

**Soybeans for crushing: Average prices of No. 2 yellow soybeans, bulk, in carlots at Chicago, by months, Oct. 1933-Nov. 1958\* (Dollars per bushel)**

Crop Year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Season Ave. **
1933-34	.72	.73	.76	.79	.82	.82	.88	.90	.93	.94	.94	—	.84
1934-35	.86	.96	1.24	1.27	1.29	1.13	1.10	1.07	.95	—	.72	1.06	
1935-36	.79	.81	.87	.88	.85	.82	.83	.85	.91	1.22	1.42	1.27	.96
1936-37	1.23	1.29	1.46	1.61	1.59	1.59	1.74	1.75	1.40	1.39	1.12	.98	1.43
1937-38	.98	.93	.95	1.00	1.04	.98	.92	.91	.88	.92	.86	.84	.93
1938-39	.74	.74	.81	.84	.82	.88	.89	.96	.93	.90	—	.87	.85
1939-40	.87	.98	1.15	1.16	1.06	1.14	1.09	1.00	.81	.82	.81	.81	.96
1940-41	.83	.95	.96	1.02	.95	1.04	1.20	1.32	1.39	1.50	1.57	1.83	1.06
1941-42	1.58	1.60	1.67	1.83	1.95	1.92	1.83	1.80	1.72	1.74	1.71	1.71	1.68
1942-43	—	—	/1.86	/1.87	/1.79	/1.71	/1.71	/1.71	1.71	1.71	/1.71	1.71	1.72
1943-44	1.88	—	—	—	—	—	—	—	/1.92	/1.95	/1.94	/2.04	1.90
1944-45	—	—	—	—	—	—	—	—	—	—	—	—	2.20
1945-46	2.11	2.18	/2.18	—	—	—	—	—	—	—	—	—	2.13
1946-47	2.87	3.29	/3.12	/3.21	—	—	—	—	—	—	—	—	3.04
1947-48	3.39	3.66	3.93	4.21	—	3.59	/3.86	4.02	—	—	3.78	/3.22	3.80
1948-49	2.44	2.58	2.62	2.47	2.26	2.28	2.26	2.32	2.33	2.64	3.20	/2.21	2.45
1949-50	2.23	2.19	2.31	2.31	2.36	2.48	2.69	3.11	3.00	/3.12	/2.92	—	2.29
1950-51	2.37	2.75	3.02	3.22	/3.00	—	3.25	—	—	3.17	/3.02	—	2.66
1951-52	2.91	2.93	/2.99	/2.98	/3.05	—	/2.83	3.03	/3.25	3.28	—	—	2.98
1952-53	2.92	2.92	/2.90	/2.83	/2.82	—	/2.92	/2.91	/2.82	/2.69	—	/2.57	2.88
1953-54	2.61	2.85	—	—	—	/3.46	—	—	—	—	/4.00	2.68	2.71
1954-55	2.74	2.81	2.78	2.76	2.76	—	2.51	2.49	2.38	—	—	—	2.77
1955-56	2.24	2.28	2.33	2.42	—	2.56	2.73	3.10	2.88	2.76	2.56	2.28	2.39
1956-57	2.30	2.51	2.54	2.47	2.36	—	2.33	2.32	—	—	—	—	2.40
1957-58	2.26	2.27	2.28	2.20	—	—	—	—	—	—	—	2.16	2.24
1958-59	2.08	2.11	—	—	—	—	—	—	—	—	—	—	—

\* Source: Agricultural Marketing Service, U. S. Dept. of Agriculture. Compiled as follows: Oct. 1933-May 1942 from Chicago Daily Trade Bulletin, June 1942 and subsequently from Chicago Journal of Commerce. Monthly prices, Oct. 1933-Sept. 1939, are simple averages of daily quotations, net track price; monthly prices, Oct. 1939 and subsequently, are weighted averages of reported cash sales—computed by weighting daily selling price by number of carlots sold. \*\*Season average prices 1933-34 through 1938-39, are simple averages of monthly prices; beginning with 1939-40 the season averages are weighted by the monthly volume of cash sales. /Five cars or less sold, subsequently prices may not reflect general price level as there is little or no trading at the terminal market.

## VOLUME OF FUTURES TRADING IN SOYBEANS, MEAL AND OIL

**Volume of futures trading in soybeans, soybean oil, and soybean meal, all markets combined, calendar years, 1950-54 average, 1955, 1956, 1957, and 1958**

Commodity	Unit	1950-54 Average	1955	1956	1957	1958
Soybeans (Million bushels)	—	3,873	4,303	5,794	4,388	3,073
Soybean oil (Million pounds)	—	3,338	4,301	12,456	10,491	9,384
Soybean meal (Thousand tons)	—	2,823	5,551	6,925	5,825	11,986

1/ Preliminary. Source: Commodity Exchange Authority.

# VALUE OF U. S. SOYBEAN CROP

Soybeans for beans: Value of production, U. S. and specified states 1925-58 (Thousand dollars)

Year	U. S.	Illinois	Iowa	Indiana	Ohio	Missouri	Minnesota
1925	11,430	3,077	260	872	571	905	-----
1930	19,058	8,225	1,350	2,495	651	1,584	-----
1935	35,565	18,983	4,510	4,879	1,771	1,140	76
1940	70,224	29,675	12,478	8,929	8,168	1,601	779
1941	166,042	77,411	24,341	21,337	20,336	3,462	1,752
1942	301,137	108,830	56,013	42,472	38,073	11,304	5,288
1943	345,032	129,881	65,743	46,461	45,851	15,714	5,929
1944	393,893	151,486	79,485	51,685	44,629	21,457	8,088
1945	402,234	156,416	73,143	58,889	39,935	19,843	13,860
1946	522,140	196,610	94,707	66,048	40,310	36,618	28,417
1947	621,477	221,869	98,995	92,594	59,404	31,680	48,096
1948	516,069	184,336	79,529	72,862	42,812	36,093	35,804
1949	506,474	183,561	69,345	72,518	45,360	39,623	29,797
1950	737,822	238,383	112,094	89,208	62,539	64,790	44,129
1951	769,926	263,538	88,918	104,791	59,156	69,402	50,513
1952	809,314	247,932	104,676	107,576	56,043	88,769	57,496
1953	731,721	219,972	103,672	101,375	59,466	68,431	76,164
1954	841,672	224,466	135,331	113,936	73,379	69,125	98,968
1955	830,603	227,956	101,293	99,951	66,640	71,155	98,412
1956	908,747	295,466	108,500	112,584	68,693	78,303	111,910
1957	1,003,262	266,904	156,474	111,230	68,634	76,503	109,608
1958*	1,134,281	287,746	153,403	116,864	74,932	108,092	105,173

\* Preliminary. Source of data: Agricultural Marketing Service, U. S. Dept. of Agriculture.

## U. S. PRICE SUPPORT OPERATIONS

Year beginning Oct. 1	Owned by CCC on Oct. 1	Under price support				Support rec'd by farmers	Price rec'd by farmers	
		Production	Purchase Loans	agreements	% Deliveries Total of crop to CCC			
1932-33	1,000 bu.	1,000 bu.	1,000 bu.	1,000 bu.	1,000 bu.	.%	1,000 bu.	\$
1933-34	15,158						.529	59
1934-35	13,509						.917	88
1935-36	23,157						.963	84
1936-37	48,901						.714	70
1937-38	33,721						1.25	105
1938-39	46,164						.837	69
1939-40	61,906						.664	61
1940-41	90,141						.802	72
1941-42	78,045						.892	86
1942-43	107,197	149		149	.1		1.55	116
1943-44	187,524	3,641		3,641	1.9	953	1.60	109
1944-45	190,133	261		261	.1	26	1.80	118
1945-46	192,121	79		79	.04	8	2.04	129
1946-47	193,167	32		32	.02		2.04	123
1947-48	203,395	4/ 6,456		4/ 6,456	3.2		2.04	143
1948-49	186,451	1 4/ 3,536		4/ 3,536	1.9		2.04	144
1949-50	227,217	0	6,928	4,065	10,993	4.8	10,652	2.18
1950-51	234,194	6,279	11,222	4,839	16,061	6.9	41	2.11
1951-52	299,249	7	14,716	238	14,954	5.0	29	2.06
1952-53	283,777	1	10,759	374	11,133	3.9	57	2.45
1953-54	269,169	1,980	30,348	1,442	31,790	11.8	7	2.56
1954-55	341,075	13	37,943	3,470	41,413	12.1	15,550	2.22
1955-56	373,522	6,570	27,490	2,643	30,133	8.1	2	2.04
1956-57	449,446	6/	59,769	5,943	65,712	14.6	27,286	2.09
1957-58	483,715	5,166	71,628	5/ 18,924	90,552	18.7	44,123	2.09
1958-59	574,413	13,882					2.08	69

1/ The prices shown from which the support levels were computed are comparable and parity prices originally reported as follows: 1941-49, August comparable price; 1950-55, parity prices as follows: 1950, August; 1951, January; 1952, November 1951; 1953, September 1952; 1954, December 1953; 1955, February 1955; 1956, January. 2/ Generally mid-September parity prices. 3/ State average prices weighted by sales to obtain national average. Prices for years in which there was a substantial volume of deliveries to CCC from loans and purchase agreements include an allowance for such deliveries valued at average loan rates. 4/ Practically all processor loans. 5/ Preliminary. 6/ Less than 500 bushels. Grain Division, Commodity Stabilization Service

# PRICE SPREAD, SOYBEANS AND END PRODUCTS

Soybeans: Spread between price received by farmers and value of products, 1945-57  
(Using monthly average of spot prices weighted by monthly crush)

Year beginning October	Soybean oil				Soybean meal				Spread between price rec'd by farmers and value of products	
	Soybean average price rec'd by farmers		Yield	Price	Value (Cols. 2 x 3)	Yield	Price	Value (Cols. 5 x 6)	Value of products	(9)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(Col. 8-1)	
\$ Per Bu.	Lbs.	c Per Lb.	Dollars	Lbs.	c Per Lb.	Dollars	Dollars	Dollars		
1945	2.08	8.9	11.9	1.06	48.1	2.72	1.31	2.37	.29	
1946	2.57	9.0	23.3	2.10	48.0	3.56	1.71	3.81	1.24	
1947	3.33	9.5	23.8	2.26	47.5	4.08	1.94	4.20	.87	
1948	2.27	9.8	13.1	1.28	47.1	3.29	1.55	2.83	.56	
1949	2.16	9.9	12.3	1.22	48.0	3.22	1.55	2.77	.61	
1950	2.47	9.7	18.1	1.76	47.6	3.21	1.53	3.29	.82	
1951	2.73	10.0	11.4	1.14	47.6	4.11	1.96	3.10	.37	
1952	2.72	10.8	12.1	1.31	48.5	3.40	1.65	2.96	.24	
1953	2.72	11.0	13.5	1.48	48.4	3.90	1.89	3.37	.65	
1954	2.46	10.9	11.9	1.30	46.8	3.03	1.42	2.72	.26	
1955	2.22	11.1	12.6	1.40	47.2	2.62	1.24	2.64	.42	
1956	2.18	10.9	12.7	1.38	48.5	2.37	1.15	2.53	.35	
1957	2.08	10.7	10.8	1.16	47.8	2.67	1.28	2.44	.36	

1) Agricultural statistics, U. S. average. 2) Census "Facts for Industry," U. S. average. 3) Spot price, crude tank cars, f.o.b. Midwestern mills from AMS monthly series weighted by volume crushed. 4) Census "Facts for Industry," U. S. average adjusted upward to include outturn as flour. 5) Spot price, bulk, 44% protein (41% before July 1950) basis Decatur from AMS monthly series weighted by volume crushed.

## PRICES OF U. S. SOYBEAN OIL MEAL

Soybean oil meal: Average price per ton, bagged, in carlots, 44% protein, at Chicago by months,  
Oct. 1929 - Nov. 1958\* (Dollars per ton)

Crop year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Season Ave. <sup>**</sup>
1929-30	58.30	54.20	53.05	51.80	48.25	48.20	50.15	50.70	48.75	46.00	47.80	47.50	50.40
1930-31	44.00	41.20	40.00	39.30	36.60	33.15	31.90	28.60	25.80	24.90	23.35	21.40	32.50
1931-32	18.60	23.85	23.00	20.45	18.75	18.90	19.90	19.95	20.20	20.05	22.60	23.70	20.85
1932-33	22.75	21.70	21.70	21.70	22.60	23.70	28.30	28.85	39.20	39.00	34.85	27.15	
1933-34	31.70	30.15	30.50	30.60	31.50	32.50	33.25	33.60	34.50	34.50	37.75	39.50	33.35
1934-35	38.50	38.85	41.20	40.70	38.45	37.10	33.80	33.20	31.70	29.05	24.00	22.85	34.10
1935-36	25.60	24.40	25.50	25.15	23.90	22.30	23.30	24.80	26.10	38.90	44.30	39.70	28.65
1936-37	36.90	39.15	43.00	44.10	41.50	41.10	47.60	48.35	39.20	37.30	34.90	34.20	40.60
1937-38	28.80	29.50	28.80	30.00	29.60	28.10	26.00	26.30	25.30	26.95	26.15	27.00	27.70
1938-39	24.60	24.40	26.20	26.30	24.70	24.45	24.70	26.30	25.95	24.70	25.70	33.70	26.00
1939-40	28.30	32.70	34.95	33.90	29.95	30.45	29.65	28.65	24.40	22.25	24.60	27.00	28.90
1940-41	25.90	30.50	29.60	29.75	26.50	26.85	27.50	28.10	29.70	33.80	36.20	41.40	30.50
1941-42	37.95	39.10	42.50	46.45	46.45	44.85	41.00	38.30	37.90	41.80	42.60	43.50	41.85
1942-43	42.70	46.60	39.00	39.35	39.60	40.60	40.60	40.55	40.40	40.40	51.90	51.90	42.80
1943-44	51.90	51.90	51.90	51.90	51.90	51.90	51.90	51.90	51.90	51.90	52.00	52.00	51.90
1944-45	52.00	52.00	52.00	52.00	52.00	52.00	52.00	62.50	66.00	97.00	93.15	66.00	62.40
1945-46	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00
1946-47	79.50	93.35	80.70	71.90	65.40	81.05	72.15	68.55	76.30	89.75	91.90	102.70	81.10
1947-48	91.05	92.10	101.50	110.25	89.00	84.75	86.20	86.60	94.25	96.90	84.40	81.50	91.60
1948-49	66.80	79.25	78.00	73.45	65.80	67.40	70.55	71.00	75.40	85.55	100.30	83.15	76.40
1949-50	74.80	69.40	68.80	66.00	65.05	69.65	73.30	82.60	85.15	96.40	78.20	65.85	74.60
1950-51	64.90	73.35	76.40	77.20	82.55	79.65	75.45	76.55	76.30	80.50	77.40	82.80	76.90
1951-52	86.25	86.65	86.65	87.00	87.00	99.65	102.65	106.70	105.05	117.20	103.35	96.25	
1952-53	93.70	88.00	85.05	80.10	78.10	79.10	78.10	79.60	78.50	76.40	73.15	70.65	80.05
1953-54	68.55	71.20	82.15	84.60	88.10	95.25	105.80	101.35	98.35	104.20	98.35	78.90	89.80
1954-55	76.00	79.05	79.50	78.35	76.10	72.35	69.85	64.15	62.35	64.60	65.05	70.70	71.50
1955-56	66.70	59.75	61.10	61.85	60.40	58.05	64.20	70.80	71.90	66.15	63.30	58.10	63.50
1956-57	57.10	58.80	58.25	61.20	59.30	58.25	56.90	56.90	55.75	58.10	64.40	62.50	58.85
1957-58	58.10	56.50	55.40	55.25	58.40	65.75	71.00	67.10	68.25	80.10	71.60	71.20	64.90

\* Source: Agricultural Marketing Service, U. S. Dept. of Agriculture. Prior to July 1950, prices are on basis of 41% protein. \*\* Simple average for months shown, rounded to nearest 5¢.

## PRICES OF U. S. SOYBEAN OIL MEAL—(Continued)

Soybean meal, 44% protein 1/  
Average wholesale price per ton, bulk, at Decatur, 1940 to date 2/ (Dollars)

Year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1940-41	19.80	24.40	23.50	23.65	20.50	20.75
1941-42	31.85	33.00	36.40	39.35	39.35	37.75
1942-43	35.60	39.50	31.90	32.25	32.50	33.50
1943-44	45.00	45.00	45.00	45.00	45.00	45.00
1944-45	45.00	45.00	45.00	45.00	45.00	45.00
1945-46	45.00	45.00	45.00	45.00	45.00	45.00
1946-47	71.40	82.90	71.30	64.10	56.00	70.25
1947-48	82.50	82.90	90.40	98.25	78.30	72.30
1948-49	56.25	69.50	67.50	62.70	56.10	56.85
1949-50	62.30	59.20	60.05	55.90	56.45	59.35
1950-51	54.05	61.45	64.70	63.90	69.25	67.00
1951-52	74.00	74.00	74.00	74.00	74.00	74.00
1952-53	81.10	74.75	71.90	67.90	64.90	66.40
1953-54	57.25	59.40	71.60	73.75	77.10	84.50
1954-55	65.25	67.70	68.25	67.10	65.60	61.50
1955-56	56.00	49.00	50.25	51.00	49.40	47.40
1956-57	45.70	47.40	46.95	49.90	46.90	46.75
1957-58	46.60	45.00	43.90	43.75	46.90	54.25
1958-59	50.60					

Year	Apr.	May	June	July	Aug.	Sept.	Average
1940-41	21.40	22.00	23.60	27.70	30.10	35.30	24.40
1941-42	33.90	31.20	30.85	34.70	35.50	36.40	35.00
1942-43	33.50	33.50	33.50	45.00	45.00	45.00	35.75
1943-44	45.00	45.00	45.00	45.00	45.00	45.00	45.00
1944-45	45.00	45.00	45.00	45.00	45.00	45.00	45.00
1945-46	45.00	55.50	59.00	89.65	85.00	59.00	55.25
1946-47	64.80	60.10	69.40	81.20	82.55	93.80	72.30
1947-48	75.00	77.15	84.70	86.80	74.70	67.85	80.90
1948-49	61.25	60.40	65.25	74.50	91.60	71.35	66.10
1949-50	62.30	72.75	74.90	86.35	67.30	54.80	64.30
1950-51	62.00	63.40	64.40	68.80	64.60	69.75	64.45
1951-52	3/88.90	3/88.60	3/93.25	3/93.10	3/103.60	3/93.50	83.35
1952-53	64.40	66.75	65.90	65.25	62.00	59.60	67.55
1953-54	95.95	89.40	87.40	92.40	87.60	67.25	78.65
1955-56	53.00	60.05	60.75	54.80	52.10	46.90	52.55
1956-57	45.50	45.40	44.25	46.60	52.90	51.00	47.45
1957-58	59.50	55.60	56.75	68.60	60.25	59.70	53.40

1/ 41% 1940-50. 2/ Does not include bagging charges which averaged as follows by years: 1940-41 \$2.50; 1941-42 \$3.00; 1942-46 \$3.50; 1946-50 \$4.50; 1950-52 \$6.00; 1952-53 \$5.00; 1953-54 \$4.50.

3/ Soybean meal mix. Grain Division, Agricultural Marketing Service, U. S. Dept. of Agriculture.

### Soybean oil meal: Prices paid by farmers per 100 pounds for specified feeds, United States, by months, 1947-58.

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ave.
1947	\$4.67	\$4.27	\$4.47	\$4.54	\$4.20	\$4.34	\$4.78	\$5.08	\$5.26	\$5.43	\$5.22	\$5.44	\$4.81
1948	5.82	5.24	5.09	5.02	5.03	5.12	5.43	5.08	5.14	4.26	4.38	4.64	5.02
1949	4.48	4.14	4.09	4.15	4.17	4.16	4.57	5.15	5.16	4.69	4.36	4.32	4.45
1950	4.20	4.02	4.11	4.19	4.58	4.73	5.16	5.01	4.44	4.15	4.24	4.34	4.43
1951	4.51	4.54	4.75	4.59	4.65	4.55	4.69	4.74	4.77	4.97	5.10	5.16	4.75
1952	5.20	5.30	5.37	5.41	5.53	5.62	5.69	5.85	6.08	5.80	5.46	5.34	5.55
1953	5.09	4.93	4.91	4.80	4.78	4.74	4.74	4.72	4.60	4.46	4.35	4.78	4.74
1954	4.86	5.01	5.30	5.53	5.99	5.67	5.77	5.80	5.52	4.81	4.77	4.79	5.32
1955	4.76	4.72	4.62	4.49	4.35	4.17	4.17	4.14	4.16	4.32	4.07	3.95	4.33
1956	3.97	3.92	3.84	3.92	4.20	4.29	4.27	4.13	4.04	3.87	3.86	3.86	4.01
1957	3.85	3.87	3.81	3.77	3.77	3.74	3.73	3.85	3.92	3.85	3.75	3.71	3.80
1958	3.68	3.70	3.90	4.15	4.21	4.15	4.41	4.57	4.36	4.26	4.05		

Agricultural Marketing Service, U. S. Department of Agriculture.

**Additional copies of the Soybean Blue Book may be purchased from the  
American Soybean Association, Hudson, Iowa, by members for \$2.**

# PRICES OF U. S. SOYBEAN OIL

Soybean oil, domestic crude: Average price per pound in tank cars at Midwestern mills,  
by months, Oct. 1929 - Nov. 1958 (Cents)

Crop year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Season ave. <sup>a</sup>
1929-30	10.7	9.7	8.8	8.4	8.4	8.4	9.0	8.9	8.9	9.3	9.3	9.3	9.1
1930-31	8.8	7.4	6.7	6.4	6.0	5.7	5.8	6.2	5.7	6.1	6.0	5.3	6.3
1931-32	5.1	4.4	3.8	3.3	3.2	3.1	3.0	3.0	3.0	3.1	3.1	3.2	3.4
1932-33	3.4	2.9	3.0	3.0	3.2	3.5	3.4	4.5	6.1	7.4	8.0	6.8	4.6
1933-34	6.0	6.2	6.2	5.6	5.6	5.9	6.0	6.0	5.5	5.8	5.7	5.8	5.9
1934-35	6.1	6.3	7.3	7.8	8.1	9.1	8.4	8.8	8.6	7.8	7.1	7.7	7.8
1935-36	8.1	8.1	8.1	7.6	7.2	6.8	6.8	6.3	6.0	7.9	8.0	8.2	7.4
1936-37	8.0	8.0	9.1	9.8	9.9	9.8	9.8	9.0	8.2	8.2	8.2	8.2	9.1
1937-38	5.8	5.6	5.2	5.8	6.1	6.4	5.9	5.7	5.2	5.9	5.7	5.2	5.7
1938-39	5.0	5.1	5.1	4.9	4.8	4.9	4.7	4.9	4.8	4.2	4.0	5.6	4.8
1939-40	5.0	4.7	5.3	5.2	5.4	5.6	5.5	5.0	4.7	4.6	4.2	3.9	4.9
1940-41	3.9	4.2	4.5	5.1	5.1	6.1	7.6	8.7	9.6	9.8	9.5	10.5	7.0
1941-42	10.4	9.8	10.1	11.4	11.7	11.8	11.8	11.8	11.6	11.2	11.4	11.7	11.2
1942-43	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
1943-44	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
1944-45	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
1945-46	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.9
1946-47	18.8	24.2	24.6	26.0	28.4	33.6	27.4	21.4	18.2	17.2	15.9	18.8	22.9
1947-48	20.7	25.6	26.2	26.6	19.6	21.4	24.5	26.3	27.3	22.1	22.1	22.8	23.8
1948-49	18.6	19.1	17.3	14.3	12.3	10.8	10.5	10.8	9.4	9.7	12.9	11.4	13.1
1949-50	10.1	9.6	10.2	10.8	11.4	12.8	13.1	13.8	13.2	12.9	14.5	15.0	12.3
1950-51	14.6	17.1	19.6	20.6	21.1	20.5	20.5	19.5	16.4	14.5	15.4	14.0	17.8
1951-52	13.8	13.2	12.6	11.2	10.7	10.2	9.1	10.1	11.2	11.3	11.5	11.2	11.3
1952-53	10.9	11.8	12.9	12.7	12.6	13.5	13.7	12.3	11.5	10.3	10.8	11.7	12.1
1953-54	13.3	13.6	12.6	12.1	12.5	13.3	14.1	13.9	14.2	14.1	14.8	13.5	13.5
1954-55	12.1	12.2	12.5	12.2	12.2	11.8	11.6	12.2	12.6	11.6	11.3	10.6	11.9
1955-56	10.9	11.0	10.9	11.7	12.8	14.3	14.9	15.3	13.6	12.5	11.4	11.3	12.6
1956-57	12.5	13.6	14.1	14.4	14.0	13.0	12.4	11.7	11.7	11.9	11.4	11.3	12.7
1957-58	11.3	11.6	11.4	11.5	11.4	11.0	11.0	11.0	10.2	9.9	10.0	9.8	10.8
1958-59	10.2	10.4											

\* Source: Agricultural Marketing Service, U. S. Dept. of Agriculture, Monthly prices, Oct. 1929 through Sept. 1938, compiled from Oil Paint and Drug Reporter; Oct. 1938 through Dec. 1952 compiled from The National Provisioner; since February 1953 from Oil Paint and Drug Reporter. \*\*Simple average for months shown.

## SOYBEANS: INSPECTIONS FOR OVERSEAS EXPORT

Soybeans: Inspections for overseas export by ports and country of destination

October-September 1956-57, 1957-58 (1,000 bushels)

Country of destination	Philadelphia	Baltimore	Norfolk	New Orleans	Mobile	Port Allen	Lake Ports	Other Ports	'57-'58	'56-'57
United Kingdom	257	728	541	89					1,952	1,615
Belgium	234	1,205	924	1,318	1,351	270			3,152	5,302
Holland	1,244	1,480	2,057	10,148	3,430	995		142	17,410	19,496
Denmark	1,125	1,017	492	1,754			63		4,595	4,451
Norway		477	499	439					1,152	1,415
Sweden	446	102	131						0	679
West Germany	314	938	1,318	4,609	1,298	630			8,702	9,107
France	221	188	472	452				59	283	1,392
Italy				15					71	15
Israel	363	360	710	774	300				3,308	2,507
Philippines				14					15	14
Japan	26	121		12,643	1,104	10,653		20	27,729	24,567
Formosa				2,097		691			3,867	2,788
Korea				1,625					1,968	1,625
Hong Kong	17								0	17
Poland						328			1,776	328
Canada							10,146		9,929	10,146
Other	1			8					625	9
Total	4,248	6,616	7,144	35,985	7,483	13,630	10,146	221	86,534	85,473

Note: Data are based on weekly reports of inspections by licensed grain inspectors for overseas export and do not include rail or truck movement to Canada or Mexico. In some cases the ultimate destination of soybeans exported is not shown on the inspection reports, therefore the quantity of each country may vary from official Census data which are based on custom declarations.

# IMPORTS, EXPORTS, SOYBEANS, OIL AND MEAL

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Continent and country		Soybeans: United States, exports as such and as oil and meal equivalent, by country of destination, year beginning Oct. 1, 1953-54 through 1957-58						Meal equivalent of soybeans 2/ 3/					
		'53-54 1,000 Bu.	'54-55 1,000 Bu.	'55-56 1,000 Bu.	'56-57 1,000 Bu.	'57-58 3/ 1,000 pounds	'53-54 1,000 pounds	'54-55 1,000 pounds	'55-56 1,000 pounds	'56-57 1,000 short tons	'54-55 1,000 short tons	'55-56 1,000 short tons	'56-57 1,000 short tons
North America													
Canada		4,708	8,107	8,890	10,191	10,729	51,694	89,015	97,612	111,897	114,800	111	186
Mexico													
Total		4,708	8,107	8,890	10,191	10,730	51,694	89,015	97,612	111,908	114,811	111	186
South America													
Argentina													
Other													
Total		(5/)	9	3	1	1	99	33	11	11	11	11	(4/)
Europe													
Austria													
Belgium-Luxembourg		674	714	2,091	2,617	2,575	7,401	7,840	22,959	28,734	27,552	16	48
Denmark		612	2,886	4,223	5,295	4,818	6,720	31,688	46,369	58,139	51,553	15	66
France		881	1,575	1,214	910	9,673	26,023	17,294	23,321	9,737	21	54	36
Germany, West		4,821	8,143	12,653	15,139	11,158	59,235	89,410	138,710	166,226	119,390	114	186
Italy		309	15	15	15	15	318	329	164	364	(4/)	1	360
Netherlands		5,885	7,308	9,40	14,151	10,844	64,617	80,242	100,357	155,378	116,031	139	211
Norway		559	86	674	1,151	6,138	8,960	7,401	15,427	12,316	13	16	336
Sweden		520	572	50	1,461	1,661	5,707	1,021	2,728	1,740	12,316	12	16
Switzerland		272	372	401	230	404	4,084	5,549	2,994	4,291	1	9	9
United Kingdom		1,563	1,794	1,491	1,959	3,992	17,62	19,698	16,371	21,510	37	41	47
Finland		164	335	328	1,796	1,796	1,801	3,678	3,601	19,217	4	34	42
Poland													
Yugoslavia													
Other													
Total		15,017	25,116	32,372	6/	43,968	7/	37,773	164,887	275,774	355,444	482,778	404,171
Africa													
Algeria													
Morocco			22	103	19	122	228	241	1,131	1,208	2,440	1	2
Total			22	103	19	122	228	241	1,139	1,208	2,440	1	2
Asia													
Israel													
China, Taiwan		54	2,376	1,808	2,508	3,649	35,593	26,088	19,852	27,538	39,044	1	54
Japan		16,021	20,350	20,402	22,882	27,911	32,443	22,404	39,462	38,656	40,553	76	42
Korea, South		176	115	313	2,424	57	1,416	648	538	933	494	1	84
Philippines		129	59	49	45	33	3,481	571	3,678	3,535	472	1	2
Total		19,916	27,273	26,210	31,197	36,775	218,678	299,457	287,786	342,542	393,492	624	606
Oceania													
Grand total		39,663	60,618	67,483	85,361	85,507	435,500	665,586	740,963	937,264	914,925	940	1,388

1/ Calculated at 18.3 percent for 1953-54 through 1956-57 and 17.8 percent for 1957-58. 2/ Based on actual output of meal. 3/ Preliminary. 4/ Less than 500 tons. 5/ Less than 500 bushels. 6/ All to Rumania. 7/ 75,000 bushels to Czechoslovakia and 19,000 bushels to Trieste. Compiled from official records of the Bureau of the Census.

# U. S. TRADE IN SOYBEANS, FATS AND OILS

United States: Trade in soybeans and oil and total trade in fats and oils, oil equivalent, annual  
1950-57 and January-September 1958

Calendar Year	Exports 1/			Imports	
	Total fats and oils	Soybeans and soybean oil	Percentage soybeans and oil	Total fats and oils	Soybeans and soybean oil
	1,000 Pounds	1,000 Pounds	Percent	1,000 Pounds	1,000 Pounds
1950	2,025,032	486,686	24.0	1,340,643	30
1951	2,445,945	744,376	30.4	1,205,309	15
1952	2,278,164	457,991	20.1	978,542	6
1953	2,607,228	488,329	18.7	1,000,071	37
1954	3,865,855	554,673	14.3	991,212	196
1955	4,130,818	879,400	21.3	1,050,458	11
1956	4,946,659	1,440,874	29.1	985,590	18
1957	4,617,772	1,639,830	35.5	983,436	5
1958 Jan.-Sept. 2/	2,725,315	787,991	28.9	750,056	20

1/ Figures include primary fats and oils, secondary fats and oils, butter, oil equivalent of oilseeds, oil equivalent of fats and oils products such as soap, shortening, etc., "Care," Section 416, and re-exports. They do not include shipments. 2/ Preliminary. U. S. Department of Agriculture, Foreign Agricultural Service, Fats and Oils Division.

## OIL AND FAT EXPORTS UNDER P.L. 480

Fats and oils: Exports under Title 1, Public Law 480, October 1957-September 1958 (million pounds)

Country	Edible oils		Lard	Tallow	Linseed oil
	Cottonseed	Soybean			
Brazil	6.9		6.9	---	---
Colombia	4.5	1.7	6.2	---	---
China, Republic of		6.8	6.8	---	---
Ecuador	2.0	1.6	3.6	---	3.2
Iceland	.2	.4	.6	---	0.2
Israel	4.4	5.9	10.3	4.1	---
Italy		66.9	66.9	---	---
Pakistan	12.9	.1	13.0	2.1	---
Poland	2.2	25.4	27.6	7.2	---
Spain		318.5	318.5	---	---
Turkey	58.3	87.8	146.1	.5	---
Yugoslavia	2.5	80.0	82.5	---	---
Korea	---	---	---	2.7	---
Philippines		---	---	4.2	---
Total	93.9	595.1	689.0	2.7	21.3
					.2

Cottonseed and soybean oils: Exports under Title 1, Public Law 480 programs, and total exports, October 1954-September 1958 (million pounds)

Type of oil	1954-55	Oct. 1 - Sept. 30, 1955-56	1956-57	1957-58	Oct. 1, 1954-Sept. 30, 1958
Shipments under P. L. 480:					
Cottonseed	117	289	55	94	555
Soybean		279	494	595	1,368
Total	117	568	549	689	1,923
Total shipments:					
Cottonseed	1,710	1,611	423	248	1,992
Soybean	50	557	805	803	2,215
Total	760	1,168	1,228	1,051	4,207

1/ Includes donations (30 million in 1954-55 and 6 million in 1955-56) from CCC stocks to private charitable agencies for distribution abroad, which were not included in Census data.

Cottonseed and Soybean oils: Title 1, Public Law 480, quantity to be shipped under active authorizations after September 30, 1958

Country	Number of P.A.	Mil. Lb.
Burma	1/33-14	11
Columbia	1/25-17	15
Ecuador	29-10	3
Italy	20-23	8
Poland	2/41-12	32
Spain	17-50	3
Spain	17-54	72
Turkey	10-33	5
Total <sup>10</sup>		149

1/ Lapsed. 2/ Lapsed, reissued as 41-19. \* The United States Bureau of Census reports an additional 20 million pounds of these oils to be shipped as of September 30, 1958.

# IMPORTS, EXPORTS CAKE AND MEAL

Oilseed cake and meal: Imports and exports, U. S., year beginning October 1929-57 (1,000 tons)

Year begin- ning Oct.	Imports						Exports					
	Cotton- seed cake meal	Soy- bean cake meal	Lin- seed cake meal	Pea- nut cake meal	Copra cake and meal	Total	Cotton- seed cake and meal	Soy- bean cake and meal	Lin- seed cake meal	Pea- nut cake and meal	Copra cake and meal	Total
1929	18.5	73.5	31.5	18.3	16.3	148.1	126.2	*	232.2	*	*	358.4
1930	.3	24.0	10.1	12.2	10.9	47.5	55.1	*	204.9	*	*	260.0
1931	1.1	18.6	12.3	12.3	4.6	38.9	218.9	*	169.2	*	*	388.1
1932	3.0	28.3	11.2	12.3	7.1	51.9	145.8	*	168.0	*	*	313.8
1933	5.0	25.0	8.7	1.2	27.9	67.8	63.1	*	241.7	*	*	304.8
1934	47.4	64.2	10.2	3.5	51.5	176.8	2.9	*	205.5	*	*	208.4
1935	5.7	20.0	17.2	1.9	49.3	94.1	10.5	*	210.6	*	*	221.2
1936	26.8	55.7	15.9	9.6	73.0	181.0	12.6	*	328.8	*	*	341.4
1937	4.6	15.5	5.3	2.2	39.8	67.4	88.5	*	240.3	*	*	328.8
1938	4.4	12.3	7.8	10.5	53.9	88.9	11.6	35.0	286.6	*	*	333.2
1939	33.0	12.1	1.3	9.8	88.4	144.6	4.9	62.3	146.7	*	*	213.9
1940	52.2	8.1	.6	7.5	84.0	152.4	.9	25.4	4.8	*	*	31.1
1941	37.3	0	.2	7.1	22.6	67.2	1.1	19.7	11.1	*	*	31.9
1942	46.8	0	1.0	4.6	0	52.4	1.7	20.9	4.2	.1	.1	27.0
1943	96.3	0	2.5	3.6	0	102.4	.6	16.1	1.5	.1	.1	18.4
1944	87.4	0	10.0	2.5	.1	100.0	+	10.0	.7	.4	.1	11.2
1945	47.6	‡	1.2	3.1	1.5	53.4	+	.9	.3	.1	.1	1.4
1946	15.6	0	‡	1.1	.5	17.2	5.3	141.7	4.6	26.2	5.1	182.9
1947	13.8	0	8.8	3.1	7.0	32.7	9.6	95.7	28.5	3.7	0	137.5
1948	39.4	3.2	8.1	.9	44.3	95.9	121.7	150.1	54.0	21.1	0	346.9
1949	104.8	26.1	4.8	6.2	56.4	198.3	123.6	47.4	6.5	48.9	0	226.4
1950	90.7	32.8	1.0	1.1	65.8	191.4	13.2	181.1	29.2	24.0	.3	247.8
1951	201.9	24.1	23.3	5.2	104.2	358.7	35.0	41.8	7.0	2.2	‡	86.0
1952	135.6	41.1	26.4	3.5	96.5	303.1	55.2	46.8	‡	‡	‡	102.0
1953	69.8	15.6	.6	.7	79.8	166.5	66.1	66.5	34.2	1.4	*	168.2
1954	32.3	0	0	0	62.8	95.1	167.8	271.7	75.0	1.6	*	516.1
1955	59.4	0	0	0	44.9	104.3	155.7	400.4	152.6	30.0	*	738.7
1956	54.6	.1	2.5	0	66.6	123.8	30.1	443.2	42.7	15.0	*	531.0
1957	71.6	1.4	7.9	0	67.5	148.4	7.2	300.0	13.7	1.7	*	322.6

†Calendar year following. \*Not separately reported. ‡Less than 50 tons. Compiled from data of the Bureau of Foreign and Domestic Commerce, and Bureau of the Census. Table prepared by the Agricultural Marketing Service, U. S. Dept. of Agriculture.



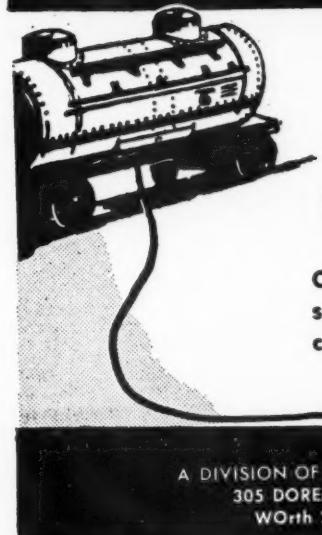
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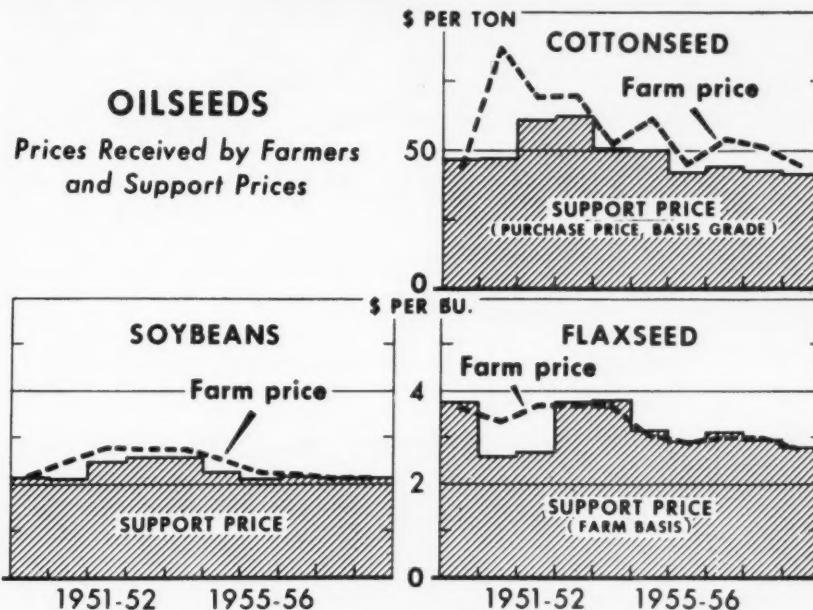
## IMPORTS, EXPORTS CAKE AND MEAL—(Continued)

Soybean cake and meal: United States, exports by country of destination, year beginning  
Oct. 1, 1952-53 through 1957-58 (short tons)

Country of destination	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58 1/
North America:						
Barbados			30	198	370	449
Canada	18,532	28,738	72,638	197,113	205,195	127,666
Cuba	12,354	13,957	18,662	23,213	30,722	36,392
Jamaica	32	10	200	124	140	415
Mexico	44	60	222	214	4,168	8,822
Panama	1	30	40			523
Trinidad and Tobago					24	50
Others				33	76	230
Total	30,963	42,795	91,792	220,895	240,695	174,547
Europe:						
Austria			1,000			
Belgium-Luxembourg		20	17,406	24,742	26,063	13,254
Denmark			24,950	21,510	48,584	15,027
Finland			8,929	7,363		
France			4,591	6,880	125	1,092
Germany, West		210	1,683	11,998	5,526	2,053
Gibraltar				55		
Greece				11	210	234
Iceland	125	375	1,440	1,657	1,217	901
Ireland		1,515	3,900	1,551	3,469	2,024
Italy	115		10,999	28,418	53,698	62,200
Netherlands		110	39,585	14,360	8,036	3,045
Norway			25,529	21,585	17,362	10,222
Portugal						165
Spain			50	118	2,946	742
Sweden	22		555	11,976	12,526	28
Switzerland			1,219	1,543	601	
Trieste			1,504			
United Kingdom	200	640	16,030	5,969	5,016	1,710
Total	462	3,870	158,370	159,736	185,379	112,697
Asia:						
Japan	14,374	17,537	18,455	13,878	5,521	1,245
Philippines	644	958	1,833	4,052	7,844	6,629
Saudi Arabia	12	16			130	
Korea, South						50
Other						100
Total	15,030	18,511	20,288	17,930	13,495	8,024
South America:						
British Guiana				15	57	60
Colombia	31	20				
Surinam	21	14	79	61	53	81
Venezuela	352	1,308	1,131	1,692	3,413	4,246
Others					22	117
Total	404	1,342	1,210	1,768	3,545	4,504
Africa					110	
Oceania			40	30	4	
World total	46,859	66,518	271,700	400,359	443,228	2/299,992

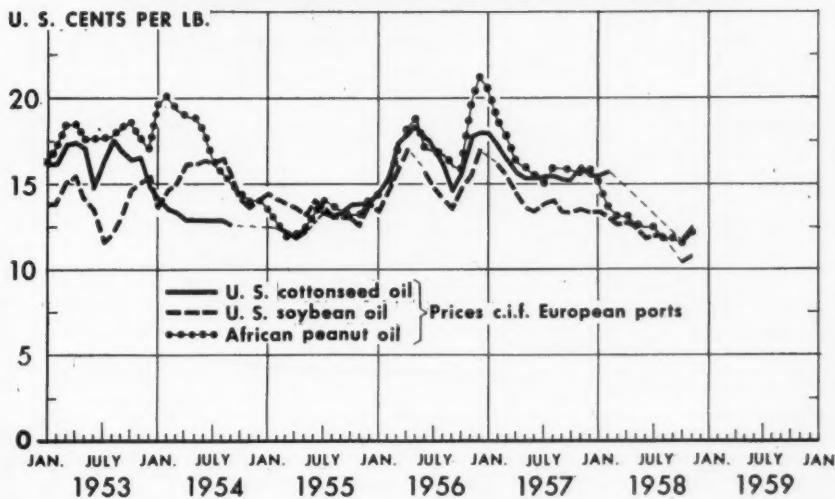
1/ Preliminary. 2/ Includes 220 tons whose destination is not indicated. Compiled from official records of the Bureau of the Census.

## OILSEED PRICES NEAR SUPPORT IN RECENT YEARS



1958-59 prices are forecast. USDA's Agricultural Marketing Service.

## U. S. FATS AND OILS ENCOUNTER STRONG COMPETITION ABROAD



Foreign Agricultural Service.

# SOYBEANS: CRUSHINGS AND YIELDS OF OIL AND MEAL

Soybeans: Crushings and yields of oil and meal per bushel crushed by months crop years 1950-57  
Crushings

Year beginning	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Year
	Mil. bu.												
1950	19.6	22.8	24.7	25.1	22.5	24.8	22.0	21.3	17.9	17.8	18.8	14.8	252.0
1951	21.6	23.1	23.2	24.0	22.5	21.5	20.1	19.7	18.6	17.5	15.0	244.4	
1952	22.5	22.0	21.4	21.6	18.7	20.4	19.2	20.7	17.3	16.3	18.7	15.7	234.4
1953	21.3	20.3	20.8	20.8	18.9	19.3	17.6	17.5	15.4	15.4	14.8	11.1	213.2
1954	21.7	22.2	21.2	21.5	19.8	19.5	20.0	21.0	22.1	21.3	19.9	18.7	249.0
1955	25.4	25.4	23.9	24.4	24.5	25.4	25.3	24.6	22.2	20.4	21.8	19.9	283.1
1956	27.9	26.6	27.0	28.4	26.6	28.9	27.3	26.5	24.7	24.4	25.4	22.2	315.9
1957 1/	28.1	29.2	28.4	31.1	27.1	30.8	31.5	32.2	28.7	30.0	31.6	25.1	353.8

### Yield of oil per bushel crushed

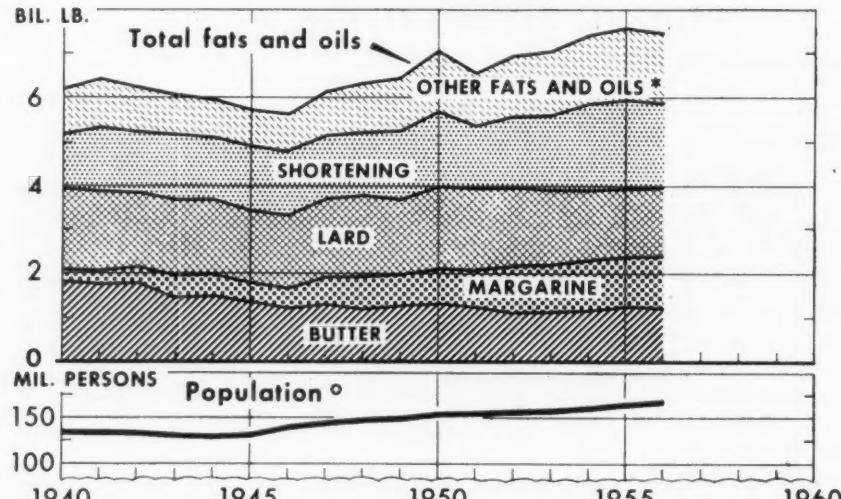
	Lb.												
1950	9.7	9.5	9.5	9.6	9.6	9.7	9.7	9.8	9.9	9.9	10.0	10.1	9.7
1951	10.0	9.8	9.6	9.7	9.9	10.1	10.1	10.1	10.2	10.2	10.2	10.4	10.0
1952	10.6	10.5	10.6	10.7	10.7	10.9	10.8	10.9	11.0	11.0	11.2	11.1	10.3
1953	10.8	10.8	10.9	11.0	11.1	11.1	11.0	11.0	11.1	11.3	11.2	11.2	11.0
1954	10.9	10.8	10.8	10.8	10.8	10.8	10.9	10.9	11.0	11.0	11.0	11.0	10.9
1955	11.0	10.9	11.0	11.0	11.1	11.1	11.1	11.1	11.2	11.2	11.4	11.1	11.1
1956	10.8	10.7	10.7	10.7	10.8	10.8	10.9	10.9	11.0	11.0	10.9	11.0	10.9
1957 1/	10.9	10.7	10.6	10.6	10.7	10.7	10.7	10.8	10.8	10.9	10.8	10.8	10.7

### Yield of meal per bushel crushed

1950	46.3	47.0	46.7	47.0	47.1	46.9	46.7	46.9	46.7	46.7	46.4	46.9	46.8
1951	46.4	46.5	46.7	46.9	46.8	45.9	46.4	46.5	46.7	46.7	46.8	47.7	46.9
1952	47.9	47.1	47.4	47.0	47.4	47.5	47.5	47.3	46.8	47.4	47.6	47.3	47.4
1953	47.5	47.5	47.6	47.4	46.5	47.4	47.7	47.5	47.2	47.9	47.9	46.3	47.4
1954	46.0	45.7	45.8	45.7	45.6	45.5	45.6	45.7	46.1	46.2	46.1	45.9	45.8
1955	45.7	46.0	45.4	43.6	45.9	46.1	46.2	46.4	46.5	46.6	47.1	46.2	46.0
1956	47.1	47.5	47.7	47.5	47.3	47.6	47.6	48.1	48.0	47.9	47.6	46.5	47.5
1957 1/	46.4	46.7	46.7	46.7	46.4	46.6	46.9	47.1	46.6	47.7	46.8	47.2	46.8

1/ Preliminary. Agricultural Marketing Service.

## CONSUMPTION OF FATS AND OILS AS FOOD

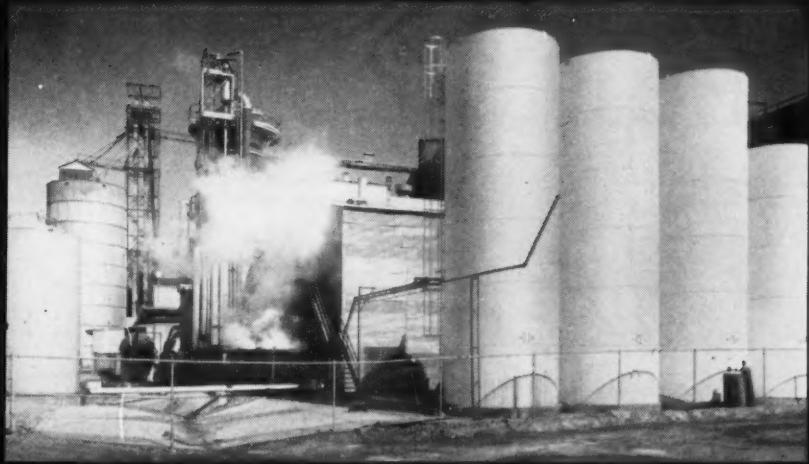


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# AMINO ACID CONTENT OF FOODS

Amino acids per gram of total nitrogen in edible portion of foods

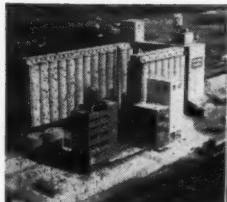
	Tryptophan	Threonine	Isoleucine	Leucine	Lysine	Methionine	Cysteine	Total	Phenylalanine	Tyrosine
Soybeans and flour (Glycine max):										
Average—grams	.086	.246	.336	.482	.395	.084	.111	.195	.309	.199
Maximum—do	.138	.326	.462	.551	.512	.138	.146	—	.344	.269
Minimum—do	.044	.169	.250	.375	.230	.042	.062	—	.200	.118
Samples—no.	74	54	65	59	90	95	24	—	57	11
Soybean curd—grams										
Samples—no.	—	—	—	—	—	1	.074	.140	—	—
Soybean milk:										
Average—grams	.085	.296	.294	.512	.452	.090	.120	.210	.328	.325
Maximum—do	.109	.331	.312	.568	.611	.108	.145	—	.355	—
Minimum—do	.071	.261	.275	.456	.319	.072	.070	—	.300	—
Samples—no.	3	2	2	2	3	4	3	—	2	1
	Valine	Arginine	Histidine	Alanine	Aspartic acid	Glutamic acid	Glycine	Proline	Serine	
Soybeans and flour (Glycine max):										
Average—grams	.328	.452	.149	.257	.758	1.147	.261	.420	.408	
Maximum—do	.400	.519	.188	.308	.796	1.330	.288	.462	.438	
Minimum—do	.250	.330	.075	.206	.694	.965	.219	.378	.379	
Samples—no.	58	68	57	2	3	37	4	2	2	2
Soybean curd—grams										
Samples—no.	—	—	—	—	—	—	—	—	—	—
Soybean milk:										
Average—grams	.312	.508	.203	.262	.719	.925	.288	—	.406	
Maximum—do	.355	.519	.231	—	—	—	—	—	—	
Minimum—do	.269	.497	.175	—	—	—	—	—	—	
Samples—no.	2	2	2	1	1	1	1	1	1	1

Amino acid content of foods, 100 grams, edible portion (grams)

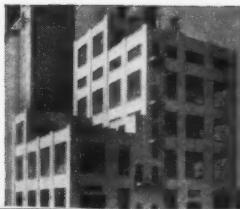
Item, Protein Content, and Nitrogen Conversion Factor	Tryptophan	Threonine	Isoleucine	Leucine	Lysine	Methionine	Cysteine	—Sulfur containing—		
								Total	Phenylalanine	Tyrosine
Soybeans, whole (34.9% protein, N x 5.71)	.526	1.504	2.054	2.946	2.414	.513	.678	1.191	1.889	1.216
Soybean flour, flakes, and grits (protein, N x 5.71):										
Low fat (44.7% protein)	.673	1.926	2.630	3.773	3.092	.658	.869	1.527	2.419	1.558
Medium fat (42.5% protein)	.640	1.831	2.501	3.588	2.940	.625	.826	1.451	2.300	1.481
Full fat (35.9% protein)	.541	1.547	2.112	3.030	2.483	.528	.698	1.226	1.943	1.251
Soybean curd (7.0% protein, N x 5.71)	—	—	—	—	—	.081	.091	.172	—	—
Soybean milk (3.4% protein, N x 5.71)	.051	.176	.175	.305	.269	.054	.071	.125	.195	.193

	Valine	Arginine	Histidine	Alanine	Aspartic acid	Glutamic acid	Glycine	Proline	Serine
Soybeans, whole (34.9% protein, N x 5.71)	2.005	2.763	.911	1.571	4.633	7.010	1.595	2.567	2.494
Soybean flour, flakes, and grits (protein, N x 5.71):									
Low fat (44.7% protein)	2.568	3.538	1.166	2.012	5.934	8.979	2.043	3.288	3.194
Medium fat (42.5% protein)	2.441	3.364	1.109	1.913	5.642	8.537	1.943	3.126	3.037
Full fat (35.9% protein)	2.062	2.842	.937	1.616	4.766	7.211	1.641	2.641	2.565
Soybean curd (7.0% protein, N x 5.71)	—	—	—	—	—	—	—	—	—
Soybean milk (3.4% protein, N x 5.71)	.186	.302	.121	.156	.428	.550	.171	—	.242

M. L. Orr and B. K. Watt: Home Economics Research Report No. 4, U. S. Department of Agriculture.



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# OFFICIAL STANDARDS FOR SOYBEANS

## REVISED EFFECTIVE SEPT. 1, 1955

Sec:

- 26.601 Terms defined.
- 26.602 Principles governing application of standards.
- 26.603 Grades, grade requirements, and grade designations.

**AUTHORITY:** §§ 26.601 to 26.603 issued under sec. 8, 39 Stat. 485; 7 U. S. C. 84. Interpret or apply sec. 2, 39 Stat. 482, as amended; 7 U. S. C. 74.

**§ 26.601 Terms defined.** For the purposes of the official Grain Standards of the United States for soybeans:

(a) **Soybeans.** Soybeans shall be any grain which consists of 50% or more of whole or broken soybeans which will not pass readily through an 8/64 sieve and not more than 10% of other grains for which standards have been established under the United States Grain Standards Act.

(b) **Classes.** Soybeans shall be divided into the following five classes: Yellow soybeans, green soybeans, brown soybeans, black soybeans, and mixed soybeans.

(c) **Yellow soybeans.** Yellow soybeans shall be any soybeans which have yellow or green seedcoats, and which in cross section are yellow or have a yellow tinge, and may include not more than 10% of soybeans of other classes.

(d) **Green soybeans.** Green soybeans shall be any soybeans which have green seedcoats, and which in cross section are green, and may include not more than 10% of soybeans of other classes.

(e) **Brown soybeans.** Brown soybeans shall be any soybeans with brown seedcoats, and may include not more than 10% of soybeans of other classes.

(f) **Black soybeans.** Black soybeans shall be any soybeans with black seedcoats, and may include not more than 10% of soybeans of other classes.

(g) **Mixed soybeans.** Mixed soybeans shall be any mixture of soybeans which does not meet the requirements of the classes yellow soybeans, green soybeans, brown soybeans, or black soybeans. Bicolored soybeans shall be classified as mixed soybeans.

(h) **Grades.** Grades shall be the numerical grades, sample grade, and special grades provided for in § 26.603.

(i) **Bicolored soybeans.** Bicolored soybeans shall be soybeans with seedcoats of two colors, one of which is black or brown.

(j) **Splits.** Splits shall be pieces of soybeans that are not damaged.

(k) **Damaged kernels.** Damaged kernels shall be soybeans and pieces of soybeans which are heat-damaged, sprouted, frosted, badly ground-damaged, badly weather-damaged, moldy, dis-eased, or otherwise materially damaged.

(l) **Heat-damaged kernels.** Heat-damaged kernels shall be soybeans and pieces of soybeans which are materially discolored and damaged by heat.

(m) **Foreign material.** Foreign material shall be all matter, including soybeans and pieces of soybeans, which will pass readily through an 8/64 sieve and all matter other than soybeans remaining on such sieve after sieving.

(n) **Stones.** Stones shall be concreted earthy or mineral matter and other substances of similar hardness that do not disintegrate readily in water.

(o) **8/64 sieve.** An 8/64 sieve shall be a metal sieve 0.032 inch thick perforated with round holes 0.125 (8/64) inch in diameter with approximately 4,736 perforations per square foot.

**§ 26.602 Principles governing application of standards.** The following principles shall apply in the determination of the classes and grades of soybeans:

(a) **Basis of determination.** Each determination of class, splits, damaged kernels, and heat-damaged kernels, and of black, brown, and/or bicolored soybeans in yellow or green soybeans, shall be upon the basis of the grain when free from foreign material. All other determinations shall be upon the basis of the grain as a whole.

(b) **Percentages.** All percentages shall be upon the basis of weight. The percentage of splits shall be expressed in terms of whole percents. All other percentages shall be expressed in terms of whole and tenths percents.

(c) **Moisture.** Moisture shall be ascertained by the air-oven method prescribed by the United States Department of Agriculture, as described in

Grade	Minimum test bushel per bushel Pounds	Moisture %	Splits %	Maximum limits of			
				Total %	Damaged kernels Heat damaged %	Foreign material %	Brown, black, and/or bicolored soybeans in yellow or green soybeans %
1 -----	56	13.0	10	2.0	0.2	1.0	1.0
2 -----	54	14.0	20	3.0	0.5	2.0	2.0
3† -----	52	16.0	30	5.0	1.0	3.0	5.0
4‡ -----	49	18.0	40	8.0	3.0	5.0	10.0

**Sample grade:** Sample grade shall be soybeans which do not meet the requirements for any of the grades from No. 1 to No. 4, inclusive; or which are musty, sour, or heating; or which have any commercially objectionable foreign odor; or which contain stones; or which are otherwise of distinctly low quality.

† Soybeans which are purple mottled or stained shall be graded not higher than No. 3. ‡ Soybeans which are materially weathered shall be graded not higher than No. 4.



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#### Skellysolve for Animal and Vegetable Oil Extraction

##### APPLICATIONS

**SKELLYSOLVE-B** Making edible oils from seeds, peanuts, cottonseed and the like. Closed cup flash point about 23°F.

**SKELLYSOLVE-C** Making both edible and inedible oils and meals, particularly where lower volatility than that of Skellysolve is desired because of work requirements. Closed cup flash point about 13°F.

**SKELLYSOLVE-F** Extracting cottonseed, soybean meals and other products in laboratory analytical work. Originally made to conform to A.O.C.S. specifica-

tions for petroleum ether and pharmaceutical extractions, where finest quality solvent is desired. Closed cup flash point about 50°F.

**SKELLYSOLVE-H** Making edible and inedible oils and meals where greater volatility is desired than that of Skellysolve C or L. Closed cup flash point about 16°F.

**SKELLYSOLVE-L** For degreasing meat scraps, rendering oil-saturated fuller's earth or other general extraction. Closed cup flash point about 12°F.

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# Skellysolve

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Industrial Division:  
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## STANDARDS FOR SOYBEANS—(Continued)

Service and Regulatory Announcement No. 147, issued by the Agricultural Marketing Service, or ascertained by any method which gives equivalent results.

(d) **Test weight per bushel.** Test weight per bushel shall be the weight per Winchester bushel as determined by the method prescribed by the United States Department of Agriculture, as described in Circular No. 921 issued June 1953, or as determined by any method which gives equivalent results.

**§ 26.603 Grades, grade requirements, and grade designations.** The following grades, grade requirements, and grade designations are applicable under these standards:

(a) **Grades and grade requirements for soybeans** (see also paragraph (c) of this section).

(b) **Grade designation.** The grade designation for soybeans shall include in the order named the number of the grade or the words "Sample grade," as the case may be; the name of the class; and the name of each applicable special grade. In the case of mixed soybeans the grade designation shall also include, following the name of the

class, the approximate percentages of yellow, green, brown, black, and bicolored soybeans in the mixture.

(c) **Special grades, special grade requirements and special grade designation for soybeans—**

(i) **Garlicky soybeans—(i) Requirements.** Garlicky soybeans shall be soybeans which contain 5 or more garlic bulblets in 1,000 grams.

(ii) **Grade designation.** Garlicky soybeans shall be graded and designated according to the grade requirements of the standards applicable to such soybeans if they were not garlicky and there shall be added to and made a part of the grade designation the word "garlicky."

(2) **Weevily soybeans—(i) Requirements.** Weevily soybeans shall be soybeans which are infested with live weevils or other live insects injurious to stored grain.

(ii) **Grade designation.** Weevily soybeans shall be graded and designated according to the grade requirements of the standards applicable to such soybeans if they were not weevily, and there shall be added to and made a part of the grade designation the word "weevily."

## SOY FLOUR STANDARDS

	<b>Full-Fat Soy Flour</b>	<b>Low-Fat Soy Flour</b>	<b>Defatted Soy Flour</b>
Protein (Nx6.25)*	40.0% Min.	45.0% Min.	50.0% Min.
Protein (Nx5.7)*	36.5% Min.	41.0% Min.	45.0% Min.
Fat (Ether Extract)*	18.0% Min.	4.5% Min. 9.0% Max.	2.0% Max.
Fibre*	3.0% Max.	3.3% Max.	3.5% Max.
Moisture	8.0% Max.	8.0% Max.	8.0% Max.
Ash*	5.5% Max.	6.5% Max.	6.5% Max.

Screen—97% through No. 100 U. S. Standard Screen for each of the above. \*Moisture free basis.  
Approved and adopted by the Soya Food Research Council.

### DEFINITION

The products shall be processed from high quality, sound, clean, dehulled yellow soybeans as defined in the United States Grain Standards Act. The soybeans shall be subjected to a thorough initial cleaning operation that shall substantially remove all foreign material. Disagreeable flavors and odors shall be removed

by subjecting the soy material to adequate processing.

Soy flour shall be prepared and packaged under modern sanitary conditions.

The soy flour shall be free from burnt, musty, rancid or other undesirable flavors or odors; free from burnt, scorched, or grayish color; and free from insects, insect webbing, dirt or other extraneous matter.

## DENSITIES

### Apparent densities of soybean products (lbs. per cu. ft.)

Cracked soybeans before conditioning	25-28
Cracked soybeans after conditioning	30-34
*Ground soybeans	25-34
*Soybean millfeed	25-27
*Soybean hulls, unground	6-7
*Soybean hulls, ground	20
*Expeller soybean oil meal	36-40
*Sol. ext. soybean oil meal, 41%	34-36
*Sol. ext. soybean oil meal, 44%	35-38

*Sol. ext. soybean oil meal, 50%	41-42
Soybeans, whole	46-48
Soybean millfeed pellets	37-38
Flakes before extraction	24.1
Flakes after extraction	21.5-21.8
Meal after toasting	30-35
Soy flour	30-36
Soy puffs	19-21
Soy grits	43

\*Items listed by the Association of Feed Control Officials. From Paul O. Berg, professional engineer, and in part reprinted from Feedstuffs.

# LEADING SOYBEAN VARIETIES

**Characteristics and performance of most widely grown varieties. List prepared by agronomists in soybean producing states.**

## NORTHERN VARIETIES

(Listed in order of maturity)

**Acme**, is approximately 10 days earlier than Flambeau. It has gray pubescence (short hairs on stems, leaves and pods), purple flowers and yellow seed and hilum (seed scar). Normally two to three seeds per pod. Grows erect, strong straw.

**Crest**, developed by the Central Experiment Farm, Ottawa, Ontario, Canada, from a cross between NDB-291 (Manitoba Brown x Mandarin) x Mandarin; released in 1958; matures 4 to 7 days earlier than Flambeau. Gray pubescence, purple flowers, yellow seeds and a yellow hilum.

**Flambeau**, developed by the Wisconsin Agricultural Experiment Station from a Russian introduction; released in 1944; the earliest maturing recommended variety grown in the United States. Brown pubescence, purple flowers, yellow seeds with a black hilum.

**Goldsey**, developed by the Ontario Agricultural College as a selection from O.A.C. No. 211; released about 1940; matures 2 days later than Flambeau; characterized by poor resistance to lodging. Gray pubescence, purple flowers, yellow seeds with a yellow hilum.

**Norchief**, developed by the Wisconsin Agricultural Experiment Station in cooperation with the U. S. Regional Soybean Laboratory from the cross Flambeau x Hawkeye; released in 1954; matures 1 day later than Goldsey; an erect, high-yielding, high-oil-content variety for the far northern United States. Brown pubescence, purple flowers, yellow seeds with a black hilum.

**Comet**, developed by the Division of Forage Plants, Central Experimental Farm, Ottawa, Ontario, Canada, from the cross Pagoda x Mandarin; released in 1954; matures 2 days later than Norchief. Gray pubescence, purple flowers, yellow seeds with a yellow hilum.

**Grant**, developed by the Wisconsin Agricultural Experiment Station in cooperation with the U. S. Regional Soybean Laboratory, from the cross

Lincoln x Seneca; released in 1955; matures 2 days later than Comet; a high-yielding, high-oil-content variety with medium lodging resistance. Light brown pubescence, white flowers, yellow seeds with a black hilum.

**Mandarin (Ottawa)**, developed by the Central Experimental Farm, Ottawa, Ontario, Canada, as a selection from Mandarin; released about 1930; matures at the same time as Grant. Gray pubescence, purple flowers, yellow seeds with a yellow hilum.

**Hardome**, developed by the Dominion Experimental Farm, Harrow, Ontario, Canada, from the backcross Mandarin x (Mandarin x A.K.); released in 1953; matures at the same time as Grant and Mandarin (Ottawa). Gray pubescence, purple flowers, yellow seeds with a gray hilum.

**Capital**, developed by the Central Experimental Farm, Ottawa, Ontario, Canada, from the cross of strain No. 171 x A.K. (Harrow); released in 1944; matures 1 day later than Grant; has tendency to lodge. Brown pubescence, purple flowers, yellow seeds with a light brown hilum.

**Chippewa**, developed by the Illinois Agricultural Experiment Station in cooperation with the U. S. Regional Soybean Laboratory from the backcross Lincoln x (Lincoln x Richland); released in 1954; matures 2 days later than Capital; has high yield and high oil content with good resistance to lodging and good seed quality. Brown pubescence, purple flowers, yellow seeds with a black hilum.

**Renville**, developed by the Minnesota Agricultural Experiment Station in cooperation with the U. S. Regional Soybean Laboratory from the backcross Lincoln x (Lincoln x Richland); released in 1952; matures at the same time as Chippewa. Gray pubescence, white flowers, yellow seeds with a light brown hilum.

**Harly**, developed by the Dominion Experimental Farm, Harrow, Ontario, Canada, from the cross Mandarin x A.K. (Harrow); released in 1948; matures 1 day later than Renville; a tall variety with good lodging resistance and good seed quality, but with low oil content. Gray pubescence, purple flowers, yellow seeds with a yellow hilum.

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## NORTHERN VARIETIES

(Continued)

**Monroe**, developed by the Ohio Agricultural Experiment Station in cooperation with the U. S. Regional Soybean Laboratory from the cross Mukden x Mandarin; released in 1949; matures 2 days later than Harly. Gray pubescence, white flowers, yellow seeds with a yellow hilum.

**Blackhawk**, developed by the Iowa Agricultural Experiment Station in cooperation with the U. S. Regional Soybean Laboratory from the cross Mukden x Richland; released in 1951; matures 2 days later than Monroe. Gray pubescence, white flowers, yellow seeds with a light brown hilum.

**Earlyana**, developed by the Purdue Agricultural Experiment Station as a selection from a natural cross in the Dunfield variety; released in 1943; matures 2 days later than Blackhawk; has a tendency to lodge excessively. Brown pubescence, purple flowers, yellow seeds with a yellow hilum.

**Lindarin**, developed by the Purdue Agricultural Experiment Station in cooperation with the U. S. Regional Soybean Laboratory, as a selection from the cross Mandarin (Ottawa) x Lincoln; released in 1959; matures about the same time as Earlyana. Gray pubescence, purple flowers, yellow seeds with a buff hilum.

**Harosoy**, developed by the Dominion Experimental Station, Harrow, Ontario, Canada, from the backcross Mandarin x (Mandarin x A.K.); released in 1951; matures 1 day later than Earlyana; characterized by consistently high yield in its area of adaptation. Gray pubescence, purple flowers, yellow seeds with a yellow hilum.

**Hawkeye**, developed by the Iowa Agricultural Experiment Station in cooperation with the U. S. Regional Soybean Laboratory from the cross Mukden x Richland; released in 1948; matures 3 days later than Harosoy; characterized by good yield, exceptionally high lodging resistance, good seed quality, and high oil content. Gray rubescence, purple flowers, yellow seeds with a black hilum with brown outer ring.

**Harman**, developed by the Dominion Experimental Farm, Harrow, Ontario, Canada, as a selection from the variety Manchu; released in 1944; matures about the same time as Hawkeye. Brown pubescence, purple flowers, yellow seeds with a black hilum.

**Adams**, developed by the Iowa Agricultural Experiment Station in cooperation with the U. S. Regional Soybean Laboratory from the cross Illini x Dunfield; released in 1949; matures 3 days later than Hawkeye; very high oil content and good yield. Gray pubescence, white flowers, yellow seeds with a light brown hilum.

**Ford**, developed by the Iowa Agricultural Experiment Station in cooperation with the U. S. Regional Soybean Laboratory, from the backcross Lincoln (Lincoln x Richland); released in 1959; matures 2 days later than Adams. Brown pubescence, white flowers, yellow seeds with a black hilum.

**Shelby**, developed by the Illinois Agricultural Experiment Station in cooperation with the U. S. Regional Soybean Laboratory, from the backcross Lincoln x (Lincoln x Richland); released in 1959; matures a day later than Ford. Brown pubescence, purple flowers, yellow seeds with black hilum.

**Lincoln**, developed by the Illinois Agricultural Experiment Station in cooperation with the U. S. Regional Soybean Laboratory from the cross Mandarin x Manchu; released in 1944; matures about the same time as Shelby. Brown pubescence, white flowers, yellow seeds with a black hilum.

**Clark**, developed by the Illinois Agricultural Experiment Station in cooperation with the U. S. Regional Soybean Laboratory from the backcross Lincoln x (Lincoln x Richland); released in 1953; matures 5 days later than Lincoln; characterized by exceptionally high yield in its area of adaptation, with good resistance to lodging and good oil content. Brown pubescence, purple flowers, yellow seeds with black hilum.

**Wabash**, developed by the Purdue Agricultural Experiment Station in cooperation with the U. S. Regional Soybean Laboratory from the cross Dunfield x Mansoy; released in 1949; matures a day later than Clark. Gray pubescence, white flowers, yellow seeds with a light brown hilum.

**Chief** has averaged approximately a week later in maturity than Lincoln, grows tall and is characterized by relatively poor resistance to lodging, gray pubescence, purple flowers, and normally two- to three-seeded pods. Chief beans are straw yellow and have a slate-colored hilum with a brown outer ring.

**Perry**, developed by the Purdue Agricultural Experiment Station in cooperation with the U. S. Regional Soybean Laboratory from the cross Patoka x L37-1355; released in 1952; matures 5 days later than Wabash. Gray pubescence, purple flowers, yellow seeds with a black hilum with brown outer ring.

**Scott**, developed by the Missouri Agricultural Experiment Station in cooperation with the U. S. Regional Soybean Laboratory from a cross between a rustle resistant line from S100 x CNS and a line from Lincoln x Richland; released in 1959; matures about 4 days later than Perry. Gray pubescence, purple flowers; yellow seeds with a black hilum with a brown outer ring.

## SOUTHERN VARIETIES

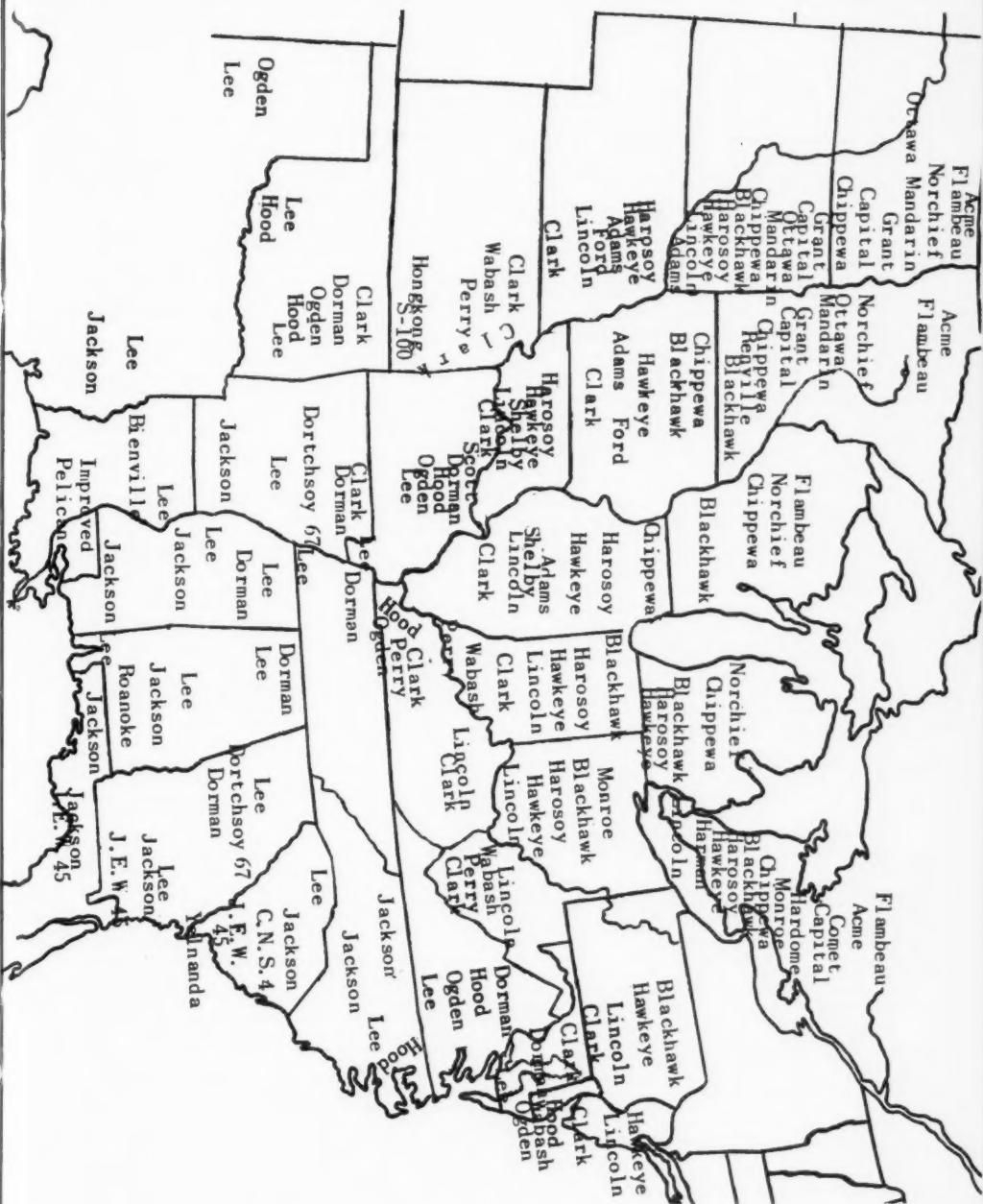
(Listed in order of maturity)

**Dorman** has averaged 7-10 days later than Perry and 14-18 days earlier than Ogden. Dorman is best adapted on the heavy clay Mississippi Delta soils of southeastern Missouri, Arkansas, Mississippi, and northeast Louisiana. It is also well adapted for production in the northeast quarter of Oklahoma, western Tennessee, and in the Coastal Plain area of Virginia. In these areas, Dorman yields will equal or surpass those for Ogden.

In its area of best adaptation, Dorman is of moderate height, but as it is moved farther north it grows taller and lodging is increased. In the Ohio Valley of Kentucky and on the eastern shore of Maryland, lodging is frequently greater than is desired unless planting rate is

## BEST ADAPTED VARIETIES

The map on opposite page shows the latest recommendations of agronomists in the soybean growing regions of the United States. Do not plant varieties north or south of their recommended latitudes.



## SOUTHERN VARIETIES

(Continued)

held down to six to nine seeds per foot of row. Dorman holds its seed well, has yellow seed of excellent quality and is high in oil content. The plants have heavy foliage and medium-sized stems, which dry out uniformly at maturity.

The primary advantage of an early variety such as Dorman, where later varieties can be grown, is to lengthen the harvest period and thus permit harvesting a greater acreage per combine. Production of varieties differing in maturity also distributes weather hazards of production and harvesting.

Dorman has white flowers, gray pubescence, a light pod wall and the seed has a light brown hilum.

**Dortchsoy 67** averages approximately 5 days later in maturity than Dorman. Dortchsoy 67 is, in general, adapted to the same production area as Dorman. In the Delta area of Arkansas and Mississippi, Dortchsoy 67 will usually yield slightly less than Dorman on the heavy clay soils but slightly more than Dorman on the lighter, drouther soils. It has heavy foliage and gives good ground cover during the growing season. Stems are of moderate size. Seed is yellow and usually of good quality. Dortchsoy 67 does not hold its seed as well as Dorman. Dortchsoy 67 has white flowers, gray pubescence, a dark gray pod wall, and seed has a light brown hilum.

**Hood** is a new variety being increased in Delaware, Maryland, Virginia, North Carolina, Kentucky, Missouri, Arkansas, and Oklahoma. Only a limited quantity of seed will be available for planting in 1959. Hood is similar in plant type to Ogden and Lee. It averages 2 days earlier than Ogden and 7 to 9 days earlier than Lee. Hood has a yellow seedcoat. It holds its seed better than Ogden and produces higher seed yields. It is resistant to the diseases bacterial pustule, wildfire, frog-eye, and target spot. Hood has purple flowers, grey pubescence, and a light brown or buff hilum.

**Ogden** has been the most widely grown variety in the South but has been largely replaced by newer varieties. Under dry conditions, Ogden shatters readily. Seed of Ogden has green seedcoats which are not desired by some foreign markets. The moderate height of Ogden makes it easy to combine. Its heavy foliage aids appreciably in keeping down late-season weeds and grasses.

The Ogden selections Dortchsoy 2 and Hale Ogden 2 are similar to the Ogden variety. Ogden has purple flowers, gray pubescence, a dark gray pod wall and the seed has a dark brown hilum.

**Lee** is similar in plant type to Ogden, but averages 5-7 days later in maturity. Lee is superior to Ogden in seed holding, seed quality, and seed yield. It has shown very little shattering 8 to 10 weeks after maturity. It is resistant to the diseases bacterial pustule, wildfire, frog-eye, and purple seed stain. It is moderately resistant to the leaf disease target spot.

Lee is adapted to the same general area as where Ogden has been grown, except that its superior seed-holding qualities will permit it to be grown on the high plains of Texas and the irrigated valleys of southern California and Arizona. Lee will be rather short for production on the lighter soils of south Alabama and west Florida and for planting after grain in the Coastal Plain soils of South Carolina and Georgia.

Lee has purple flowers, tawny pubescence, a

light tan pod wall, and the seed is yellow with a black hilum.

**Roanoke** averages 7-9 days later than Lee and grows 8-10 inches taller. In areas where Lee makes adequate growth, Roanoke will average lower in yield.

Because of its taller growth, Roanoke is preferable to Lee on the lighter soils of south Alabama and west Florida and in extremely late plantings in more northern areas.

Roanoke has white flowers, gray pubescence, a dark gray pod wall, and the seed is yellow with a light brown hilum.

**Jackson** is well adapted for production in south Mississippi, south Alabama, west Florida, and the Upper Coastal Plain soils of North Carolina, South Carolina and Georgia. Jackson is 1 or 2 days later than Roanoke and 10 days later than Lee. It grows slightly taller, but stands better than Roanoke. In its area of best adaptation, Jackson will usually yield slightly more than Lee and its taller growth permits greater ease in combining. Jackson is well suited for growing after oats or lupines.

Jackson yields well in the Delta area, but its taller growth makes it more difficult to combine than Lee. It is moderately resistant to target spot, and has moderate resistance to some strains of root knot nematodes. Jackson will usually hold its seed very well for several weeks after reaching combine maturity, but under drouthy conditions on light soil, it has shown some tendency to shatter.

Jackson has white flowers, gray pubescence, a dark gray pod wall, and the yellow seed has a brown hilum.

**Bienville** is a new variety recently released by the Louisiana Agricultural Experiment Station which matures approximately 2 days later than Jackson and approximately 4 days earlier than Improved Pelican. It averages 4 inches taller than Jackson. It does not stand as well as Jackson under conditions of rank growth. Bienville produces yields comparable to Jackson. Its oil and protein content are also comparable to Jackson. It has purple flowers and tawny pubescence. The seed has a dark brown hilum.

**CNS** matures approximately 3 days later than Jackson. Seed yield is usually less than that for Lee or Jackson, except in central Florida. CNS holds its seed quite well. Seed is much lower in oil content than other commonly grown varieties.

**CNS-4** is similar in its characteristics and performance to CNS, except that seed of CNS has a brown hilum and CNS-4 has a black hilum. Both strains are of moderate height.

**CNS-24**, or sometimes referred to as Clemson Strain 24, is similar to CNS in maturity and many of its characteristics, but grows much taller.

**J.E.W. 45** matures 6-8 days later than Jackson. It makes moderate growth and produces good seed yields in the lower Southeast. J.E.W. 45 has purple flowers, tawny pubescence, a light tan pod wall, and has yellow seed with a brown hilum.

**Improved Pelican** is a late-maturing, rank growing variety developed primarily to produce a heavy tonnage of green material for turning under in sugar cane fields. Because of its rank growth, Improved Pelican is difficult to combine, especially if planted too early. When planted in late June or early July, Improved Pelican can be combined with greater ease and will produce good yields of high quality seed. It has purple flowers, tawny pubescence, a brown pod wall, and yellow seed with a brown hilum.

# PROCESSORS OF SOYBEANS

Officers of firms are listed as follows: (1) president; (2) vice president; (3) secretary; (4) treasurer; (5) head soybean buyer; (6) oil sales manager; (7) plant superintendent; (8) meal sales manager; (9) plant manager. Brand names are in quotation marks. Type of processing equipment, tons per day, processing capacity, total storage capacity, phone numbers, and railroads serving the individual plant are listed. Information was obtained through questionnaires sent directly to processing companies. These listings are as complete as it was possible to assemble. They contain all available information but the publishers of the Soybean Blue Book will not be responsible for any omissions which may have been unavoidably made. Established policy of some firms makes unavailable more complete information than is carried in this directory.

## ALABAMA

**Dothan**—DOOTHAN OIL MILL CO., P. O. Drawer 458. Ph. LD 1, 28800, 30900, 39840. (1) J. B. Roberts; (2) W. T. Street; (3, 4) W. D. Malone; (5) J. H. Bryson, Jr.; (6, 8) R. B. Bryson; (7) E. L. Dillard. 2 screw pr., Anderson Exsokex process, hexane solv., cap. 90 t. Storage cap. 4,000 t. Served by ACL, CG, AGSA RR.

**Foley**—BALDWIN OIL MILLS, INC. Ph. 8901. Affiliate of Sessions Co. (1) H. M. Sessions; (2, 5, 6, 8, 9) E. E. Purvis; (3, 4) Paul Kaiser, Jr.; (7) Harold Adcock. Hexane solv., cap. 80 t. Storage cap. 225,000 bu. "Baldwin Oil Mills" soybean oil meal; "Gateway" mixed feeds. Served by L&G RR.

**Montgomery 1**—BUCKEYE CELLULOSE CORP. Dist. mgr., J. M. Sewell; (7) P. W. Anderson.

## ARIZONA

**Gilbert**—VEGETABLE OIL PRODUCTS CO., INC., cottonseed oil mill div. Ph. Woodland 4-8678. (2, 5, 9) C. A. Piercy; (7) M. H. Connley. 5 exp., cap. 50 t. Storage cap. 60,000 bu. "Sun Ripe" soybean oil meal and pellets. Soybean operations 3,000 t. annually. Served by SP RR.

## ARKANSAS

**Fort Smith**—FORT SMITH COTTON OIL CO., INC., 723 N. 1st St., P. O. Box 819. Ph. SU 2-0351. (1, 9) W. H. Lillard; protein sales, Mrs. Bess Hamil; gen. supt., Benny Franks; asst. supt., Burl Blackshire. 6 exp. and 16 hydr. pr. "Mor Family" mixed feeds. On MOP and SLSF RR sidings.

**Little Rock**—BUCKEYE CELLULOSE CORP. Dist. mgr., F. H. Jarrell; (7) J. M. Johnson.

**Little Rock**—ROSE CITY COTTON OIL MILL CO., P. O. Box 950. Ph. WI 5-2361. Office, 4119 E. Broadway, North Little Rock. (1) A. B. Cobb; (2) W. G. Alexander; (3) W. F. Bates; (4) W. M. Bruce, Jr. 4 Fr. screw pr., cap. 90 t. Storage cap. 150,000 bu. "Sure Shot" soybean oil meal. Served by CB, RI RR.

SOYBEAN BLUE BOOK

**Little Rock**—SOUTHERN COTTON OIL DIV., Wesson Oil & Snowdrift Co., Inc. Ph. 27-9277; LD 11, 144, 159. Main office New Orleans. (7) R. R. Castillow; (9) C. M. Smith. 6 exp. "Sco-Co" soybean oil meal. Served by MP RR.

**Newport**—SOUTHERN COTTON OIL DIV., Wesson Oil & Snowdrift Co., Inc. Ph. 872; LD 9, 5. Main office New Orleans. (7) N. L. Pugh, Jr.; (9) J. H. Jeffery. 6 Anderson exp. and French hexane solv. Served by MP RR.

**Osceola**—OSCEOLA PRODUCTS CO. (1) D. S. Laney; (2) C. F. Tompkins; (3) W. O. Frazier; (7) O. M. Beckham; (9) F. H. Ferrell. Allis-Chalmers hexane solv., cap. 125 t. Storage cap. 800,000 bu. "Osceola" soybean oil meal and pellets. Served by SLSF RR.

**West Memphis**—WEST MEMPHIS COTTON OIL MILL, P. O. Box 577. Ph. RE-53360. Affiliate of Perkins Oil Co., 727 Beale St., Memphis, Tenn. (1) T. C. Lee; (2) I. J. Lichterman; (3, 4) W. A. Loewenberg; (7) C. H. Caldwell; (8) H. D. Tobias; (9) H. H. Riggan. 4 screw pr., cap. 120 t. Storage cap. 750,000 bu. "Gold-enrod" soybean oil meal. Served by SLSF, MP, RI RR.

**Wilson**—DELTA PRODUCTS CO. P. O. Box 197. Ph. 3761-71. (1) R. E. L. Wilson III; (2) John E. Crain, (3, 4) H. F. Ohlendorf; (5, 6, 8, 9) Ralph Woodruff; (7) J. L. Tennent, Jr.; asst. secy.-treas., Charles W. Bonner. Allis-Chalmers hexane solv., cap. 150 t. Storage cap. 600,000 bu. at Evadale. "Delpro" soybean oil meal. Soybean operations 15%. Served by DVGS RR.

**Wilson**—WILSON SOYA CO. Phone 2921, 2481. (1) R. E. L. Wilson III; (3, 4) Hudson Wren; (5, 6, 8, 9) R. A. Pratt; (7) C. W. Bilbe. Hexane solv., cap. 100 t. Storage cap. 1,000,000 bu. "Wil-Soy" soybean oil meal and pellets. Served by SLSF RR.

## CALIFORNIA

**Los Angeles 58**—CALIFORNIA COTTON OIL CORP., 2301 E. 52nd St. Ph. LU-3638\*. (1) W. B. Coberry, Jr.; (2) Leonard E. Read, Jr.; (2, 3, 5, 6) Wiley Blair, 3rd; (7) H. F. Crossno; (8) W. W. Kelley. 12 screw pr., cap. 240 t. Storage cap. 500,000 bu. "Calico" soybean oil meal; pellets. Sporadic soybean operations. Served by SP RR.

**Los Angeles 22**—PACIFIC NUT OIL CO., 4615 Bandini Blvd. Affiliate of California Cotton Oil Corp., 2301 E. 52nd St., Los Angeles. Ph. LU-36381. (1) W. B. Coberry, Jr.; (2) D. L. Allison; (3, 5, 6) Wiley Blair, 3rd; (4) C. W. Allison; (7) W. D. Horne. 8 exp., cap. 160 t. Storage cap. 650,000 bu. Sporadic soybean operations. Served by ATSF, UP RR.

**Norwalk**—LIBERTY VEGETABLE OIL CO., P. O. Box 125. Ph. Logan 5-3001 Los Angeles. Subsidiary of Iowa Milling Co., Cedar Rapids, Iowa. (1, 5, 6, 8, 9) I. D. Sinaiko; (2) Joe Sinaiko; (3) Samuel Maslon; (4) Wm. Sinaiko. 4 screw pr., cap. 85 t. Storage cap. 175,000 bu. "Liberty" soybean oil meal. Served by SP RR.

## **PROCESSORS—(Continued)**

**Oakland**—ALBERS MILLING CO., 2700 7th St. Ph. Templebar 2-4750. Office 5045 Wilshire Blvd., Los Angeles 36. Subsidiary of Carnation Co. (1) F. W. Hoover; (2) E. W. Kelner; (2, 5) G. H. Forney; (2, 8) T. V. Cox; (3) Wm. Stinehart; (4) H. E. Olson; (8, 9) J. R. Faulconer. 6 exp., cap. 110 t. Storage cap. 200,000 bu. "Albers" soybean oil meal, "Albers Quality Controlled" mixed feeds and pellets. Served by ATSF, SP, WP RR.

**Richmond 4**—PACIFIC VEGETABLE OIL CORP., 1145 S. 10th St. Ph. LA-44727. Main office, San Francisco. (6) R. W. Hammond; (9) E. W. Ferguson. 6 exp., cap. 150 t.; hexane solv., cap. 120/160 t. Storage cap. 126,000 bu. "PVO" soybean oil meal. Served by SP, ATSF RR.

**San Francisco 7**—PACIFIC VEGETABLE OIL CORP., 62 Townsend St. Ph. Douglas 2-0990. Plant at 1145 S. 10th St., Richmond. Board chm., B. T. Rocca, Sr.; (1) B. T. Rocca, Jr.; asst. vice pres. mfg., E. A. Hill; (3) Jos. R. Smith; (4) Dudley F. Miller; (5, 8) James C. Taylor; (6) Richard W. Hammond. Storage cap. 368,000 bu.

**Wilmington**—VEGETABLE OIL PRODUCTS CO., INC., 401 Canal Ave. Ph. Terminal 4-7224; Los Angeles, Nevada 6-3251. (1) R. J. Roesling; (2, 5, 6, 8) S. T. Pattison; (2, 5, 6, 9) W. L. Dickinson; (3, 4) W. L. Meyers; (6) D. Dangler; (7) L. D. Stewart. 16 exp., cap. 50 t. Storage cap. 60,000 bu. "Sun Ripe" soybean oil meal and pellets. Soybean operations 3,000 t. annually. Served by SP, UP, ATSF, HB RR.

## **DELAWARE**

**Millsboro**—TOWNSEND'S INC. Ph. 2771. (1) Sen. John G. Townsend, Jr.; (2, 3, 4) Preston C. Townsend; (5, 6, 8, 9) J. D. Phillips; (7) W. W. Ulrich. Hexane solv., cap. 160 t. Storage cap. 250,000 bu. "Townsend's Inc." soybean oil meal, mixed feeds and pellets.

## **FLORIDA**

**Brooker**—SOUTHERN OIL & CHEMICAL CO., INC., P. O. Box 6. Ph. 2101. Home office 125 Broad St., New York, N. Y. (1, 6) G. A. Wharry; (2, 5, 8, 9) E. Kleinman; (3, 4) Jerry Kleinman. 3 screw pr., cap. 65 t. Storage cap. 60,000 bu. "Southsoy" soybean oil meal. Served by SAL RR.

**Pensacola**—SOUTHERN COTTON OIL DIV., Wesson Oil & Snowdrift Co. Inc. Ph. 2114; LD 3. Main office New Orleans. (9) J. T. Murphy. 5 screw pr., cap. 100 t. "Sco-Co" soybean oil meal. Served by LGN, SLSF RR.

## **GEORGIA**

**Augusta**—BUCKEYE CELLULOSE CORP. Dist. mgr., H. M. Henry; (7) H. W. Gilbert.

**Savannah**—SOUTHERN COTTON OIL DIV., Wesson Oil & Snowdrift Co. Inc. Old Augusta Rd., P. O. Box 689. Ph. 2-7109. Main office New Orleans. (7) J. R. Woolsey; (9) J. R. Howe. 3 exp. "Sco-Co" soybean oil meal. Served by CG RR.

**Thomasville**—FARMERS OIL MILL CO., INC. P. O. Box 860. Ph. Canal 6-4872. (1) F. H. Searcy; (3, 4) M. A. Frohberg; (7) A. J. Cannon. 2 screw pr., cap. 40 t. Storage cap. 166,000 bu. "Farmpro" soybean oil meal. Served by ACL RR.

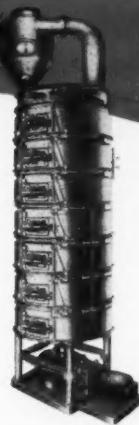
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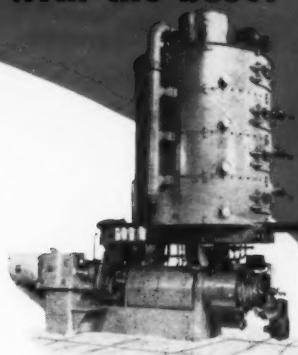
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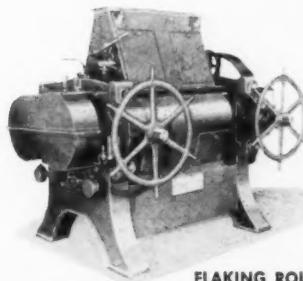


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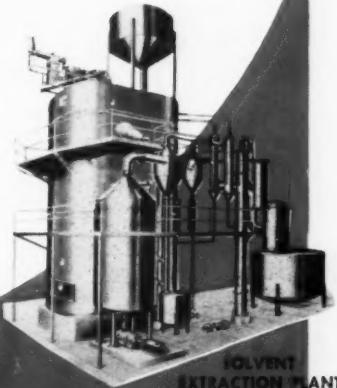
## FRENCH

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## **PROCESSORS—(Continued)**

### **ILLINOIS**

**Alhambra**—ALHAMBRA GRAIN & FEED CO Ph. HU-82265. Branch at Marine, Ill. (1) Wilbur F. Federer; (2) Joseph A. Long; (3) Clarence J. Ludwig; (4, 5, 6, 8) Elmer H. Ruehrup; (7, 9) Paul Bauer. 2 exp., cap. 40 t. Storage cap. 210,000 bu. at Alhambra and Marine. "AG&F" soybean oil meal. Served by IC RR.

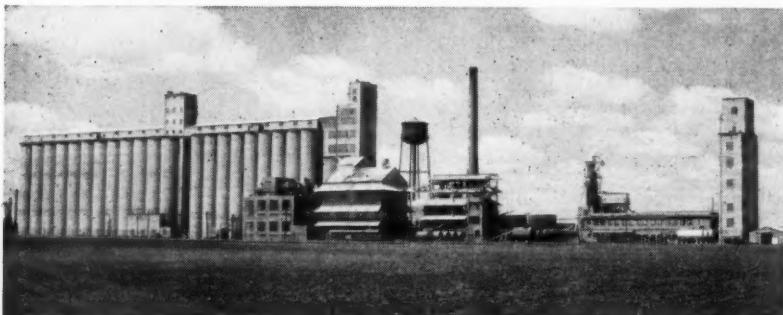
**Bloomington**—FUNK BROS. SEED CO., 1300 W. Washington St. (1) E. D. Funk, Jr.; (5, 6, 8) A. M. Convis; (7) D. D. Walker; (9) H. A. Abbott (consultant). Hexane solv., cap. 200 t. "Funk's" 44% solvent extracted soybean oil meal.

**Bloomington**—RALSTON PURINA CO. Ph. 3823. Main office St. Louis. (5) W. L. Golden; (7) J. L. Clark; (9) Nat Morey. Hexane solv., cap. 300 t. Storage cap. 2,000,000 bu. "Purina Chows" mixed feeds. Served by GM&O, IC, ITC, NKP RR.

**Champaign**—SWIFT & CO. Main office Chicago. (5, 9) H. S. Byrd; (7) C. W. Faulkner; (8) R. M. Howe. "Swift's" soybean oil meal.

**Chicago**—ALLIED MILLS, INC., 110 N. Wacker Drive. Plant at Taylorville, Ill. (1) E. W. Lenz; (3) L. M. Bolitho; (4) R. R. Carlson; (5, 6, 8) H. T. Lyon. "Wayne" soybean oil meal, mixed feeds and pellets.

**Chicago**—BORDEN'S SOY PROCESSING CO., 2404 Board of Trade Bldg. Div. of Borden Co., New York. Soya processing plants at Waterloo, Iowa, and Kankakee, Ill. (2, 5, 6, 8) J. R. Pentis.



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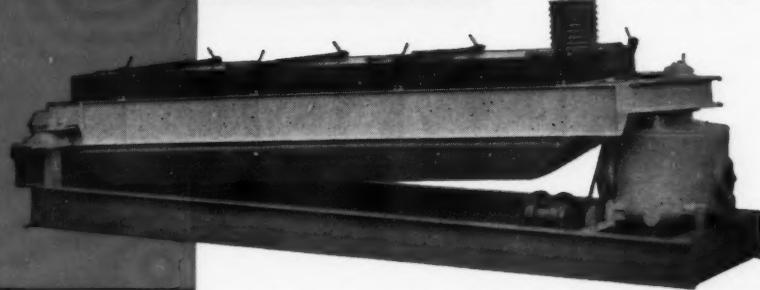
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These and other soybean screening operations are economical due to the ROTEX screening action. The nearly level, gyratory motion, pioneered by ROTEX, conveys materials rapidly over the screen surfaces with minimum vertical vibration or hop. This stratifies the material by particle size, rapidly passing undersize particles through the mesh openings. The results are clean separations of exacting accuracy coupled with high capacity. The bouncing action of rubber balls, contained beneath screen surfaces eliminates screen blinding and also aids stratification. Designed for operating convenience, ROTEX Screeners pay for themselves by the economies they effect.

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SOYBEAN PRODUCTS CO.  
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## PROCESSORS—(Continued)

**Chicago**—**CARGILL INC.**, 122nd St. and Terrene Ave. Ph. ES-57255. Main office Minneapolis. (7) Harold Sandvig. Hexane solv. "Cargill" soybean oil meal. Served by CNW RR.

**Chicago**—**CENTRAL SOYA CO., INC.** Offices 3718 Board of Trade Bldg.; and 300 Fort Wayne Bank Bldg., Fort Wayne. Central Thrifty-Fifty, Fish 'n Fifty, and Forty-Four soybean oil meal, "Central" lecithin, "Central" soybean oil products, "Master Mix" concentrates and complete feeds.

**Chicago**—**CENTRAL SOYA CO., INC.**, chemurgy div., 1825 N. Laramie. Main office Fort Wayne. (7) Edward T. Wilhelm. Solv., cap. 400 t. Storage cap. 3,000,000 bu. Industrial and edible soya products and derivatives.

**Chicago**—**SWIFT & CO.**, Union Stock Yards. Plants at Champaign, Ill.; Des Moines, Iowa; Frankfort, Ind.; Fostoria, Ohio; Memphis, Tenn. (1) P. M. Jarvis; (2) C. T. Prindeville; (3) A. H. Fritschel; (4) A. L. Bruckner; (5, 6) Scott E. Cramer. "Swift's" soybean oil meal and pellets.

**Danville** — **LAUHOFF SOYA CO.** Ph. 6-4770. Subsidiary of Lauhoff Grain Co. (1) Ralph G. Golseth; (3) J. J. Young; (4) John D. Wilkinson. Hexane solv.

**Decatur** — **ARCHER-DANIELS-MIDLAND CO.**, P. O. Box 1030. Ph. 5183. Main office Minneapolis. (9) R. S. White. Hexane solv. "Archer" 44% and 50% soybean oil meal; "Archer" pellets; defatted, low-fat soy flour; "Archer C & S" soybean cooking and salad oil. Served by IC, ITC, RR.

**Decatur** — **CHECKERBOARD SOYBEAN CO.**, Citizens Bank Bldg. Ph. 8-2161. Affiliate of Ralston Purina Co., St. Louis. (5, 9) R. E. Baer; (7) Ira Abbott. Hexane solv., cap. 250 t. Storage cap. 1,000,000 bu. Served by IC, WAB, ITC, NYC RR.

**Decatur** — **SPENCER KELLOGG & SONS, INC.** Main office, 98 Delaware Ave., Buffalo 5, N. Y. Mgr. soya flour dept., H. A. Olendorf; (7) John DeLane. Hexane solv., 44% and 50% protein soybean oil meal; "Soyflake," "Special X," "Meatone Grits," "Kel-Soysoy" soy flours. Served by ITC, WAB RR.

**Decatur** — **A. E. STALEY MFG. CO.**, 22nd and Eldorado Sts. Ph. 3-4411. Also plant at Painesville. (1) E. K. Scheiter; (2) in chg. of mfg., R. E. Greenfield; (4) W. R. Boyer; (5) K. J. Maltais; (6) crude, J. W. Moore; (6) refined, D. F. Rentshler; (6) refinery dept. M. J. Longbons; (7) W. H. Walmsley; (8) E. C. Lane; mgr. soybean div., E. E. Rhodes. Hexane solv. "Staley's" soybean oil meal 44% protein, "Hi-Pro-Con" 50% protein soybean oil meal, "Staley's" soybean mill feed, mixed feeds and extracted soy flour and grits. Served by WAB, IC, B&O, ITC, PRR.

**Galesburg** — **GALESBURG SOY PRODUCTS CO.**, 1021 S. Henderson St. Ph. 4787. (1, 6, 9) Max Albert; (2) Betty V. Uretz; asst. vice pres., Eleanor N. Simon, Lois H. Shaffer; (3, 4) Anna S. Albert; (5) E. E. Fletcher; (7) Eldon L. Wiley; (8) James B. Strong. Hexane solv., cap. 350 t. Storage cap. 400,000 bu. "Triple Value" 44% protein soybean oil meal. Served by CB&Q, ATSF RR.

**Gibson City**—**CENTRAL SOYA CO., INC.** Main office Fort Wayne. (9) George R. Walter. Solv., cap. 600 t. Storage cap. 6,500,000 bu. Central Thrifty-Fifty, Fish 'n Fifty and Forty-Four soybean oil meal, "Central" lecithin, "Central" soybean oil products, "Master Mix" concentrates and complete feeds.



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## PROCESSORS—(Continued)

**Kankakee**—BORDEN'S SOY PROCESSING CO., div. of Borden Co., New York. Also soya processing plant at Waterloo, Iowa. (1) R. J. Kunz (N. Y.); (2, 5, 6, 8) J. R. Pentti (Chicago); (7) Harry Merriman; (9) G. W. Harris; gen. mgr. soy and feed supplements, E. J. Brubaker (N. Y.). Hexane solv., cap. 225 t. Storage cap. 1,200,000 bu. "Borden's" 44% and 50% soybean oil meal. Served by NYC, IC RR.

**Monmouth**—RALPH WELLS & CO., 530 S. 3rd St. Plant 600 S. 3rd. (1) Ral-h Wells; (2, 5) Willis H. Wells; (3, 9) Adrian R. Wells; (4) Norman Wells; (6, 8) Myron Mangram; (7) Ralph Farrington. 2 exp., cap. 25-27 t. Storage cap., Monmouth, 270,000 bu.; Cameron, 80,000 bu.; Gerlaw, 10,000 bu. "Wells Pure Old Process" soybean oil meal and "Boxer Brand" soy cake-lets. Served by CB&Q, M&St.L RR.

**Quincy**—QUINCY SOYBEAN PRODUCTS CO., 1900 S. Front St. Ph. Baldwin 3-1662. (1) Irving J. Rosen; (2, 5) Norman L. Rosen; (3) Edward I. Rothschild; (4) Arnold H. Rosen; (6, 8) Theodore W. Bean; (7) Carl Strothoff; (9) Harry Jackson, Jr. French hexane solv., cap. 750 t. Storage cap. 2,200,000 bu. "Purity" soybean oil meal and pellets. Served by CB&Q, WAB RR, and Mississippi River.

**Roanoke**—EUREKA MILLING CO. (9) D. B. Hodel. 1 exp., cap. 15 t. Storage cap. 100,000 bu. "Emco" soybean oil meal and mixed feeds. Served by ATSF RR.

**Springfield**—ILLINOIS SOY PRODUCTS CO., P. O. Box 53. Ph. 2-3391. Plant, E. Sangamon Ave. Subsidiary of Iowa Milling Co., Cedar

Rapids, Iowa. (1, 4) Joe Sinaiko; (2) I. D. Sinaiko; (3) Samuel H. Maslon; (5, 6, 8, 9) Eric Nadel; (7) D. D. Crites. 8 screw pr., cap. 150 t. Storage cap. 200,000 bu. "Capital" soybean oil meal. Served by WAB RR.

**Taylorville**—ALLIED MILLS, INC. Main office, 110 N. Wacker Drive, Chicago.

**Vermont**—BADER SOY PRODUCTS CO. Ph. Stillwell 4-3371. Subsidiary of Bader & Co. (1, 6, 8) B. B. Bader; (2) H. F. Chick; (3, 4, 5) W. F. Bader; (7, 9) Dale Hatch. Hexane solv., cap. 90 t. Storage cap. 600,000 bu. at Vermont, Astoria, Rushville, Adair, Prairie City, Walnut Grove, Swan Creek. "Bader's 44% soybean oil meal, mixed feeds and pellets. Served by CB&Q RR.

**Virde**—PRAIRIE MILLS, INC. Ph. 5226. (1) Frank W. Young; (2 and gen. mgr.) Charles C. Jones; (3, 4) John M. Drennan; (6) Harold Foster; (7) Lloyd Sanson; (8) John Curran. 2 exp., cap. 35 t. Storage cap. 225,000 bu. "Prairie Mills Old Process" soybean oil meal. Served by GM&O RR.

## INDIANA

**Angola**—ANGOLA SOYA CO., 424 N. Williams St., P. O. Box 358. Ph. 523. Partnership, Reginald Hale and Alfred Hale. Hexane solv., cap. 5 t. Storage cap. 1,400 bu. Soybean oil meal. Extractions of various specialty items. Served by NYC RR.

**Decatur**—CENTRAL SOYA CO., INC. Main office Fort Wayne. (9) T. H. Allwein. Solv., cap. 1,400 t. Storage cap. 14,000,000 bu. Central Thrifty-Fifty, Fish 'n Fifty and Forty-Four soybean oil meal, "Central" lecithin, "Central" soybean oil products, "Master Mix" concentrates and complete feeds.

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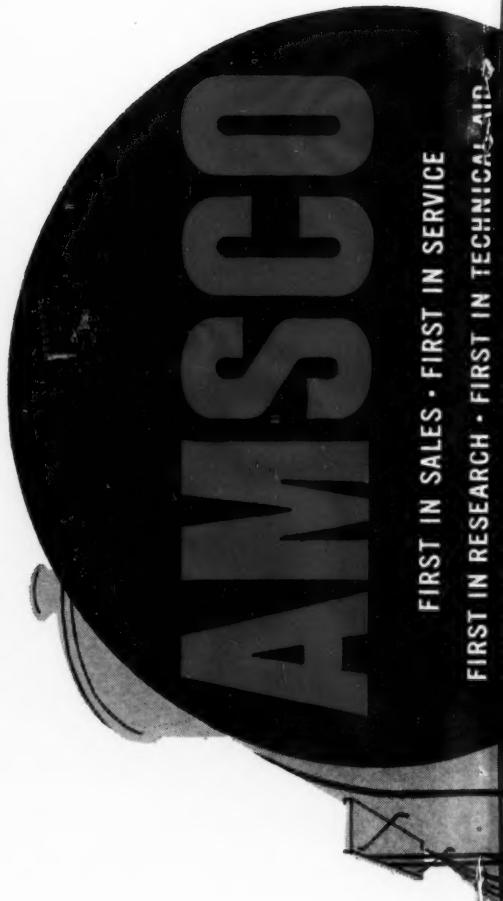
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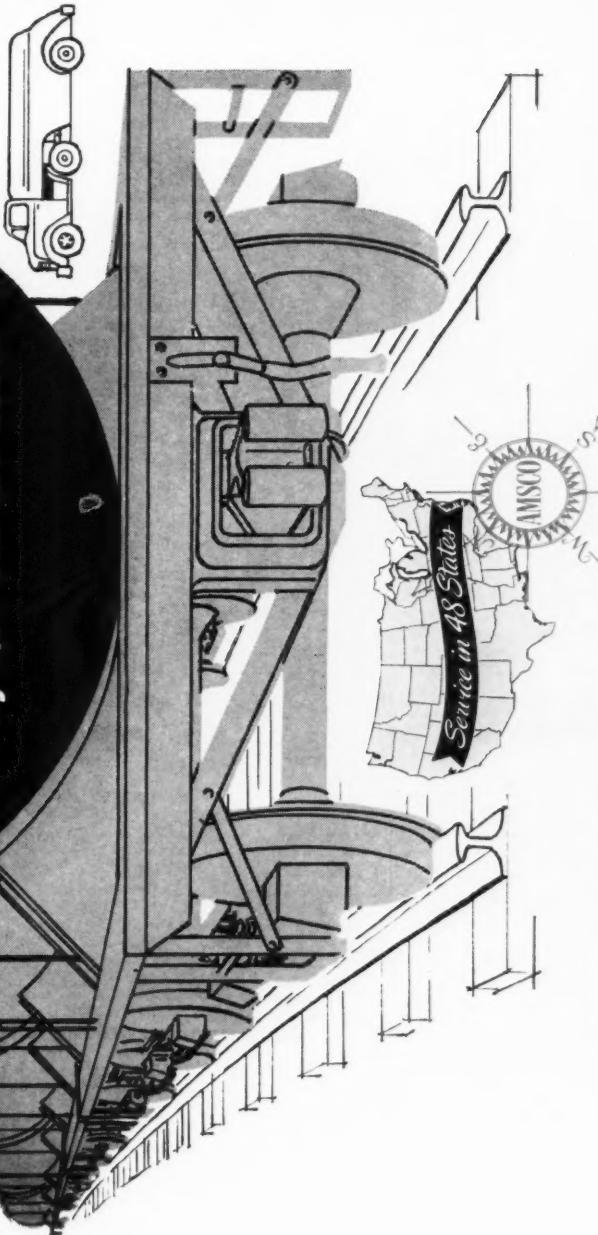


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## PROCESSORS—(Continued)

**Fort Wayne—CENTRAL SOYA CO., INC.**, 300 Fort Wayne Bank Bldg. Plants at Decatur; Gibson City, Ill.; Marion, Ohio; Chattanooga, Tenn. Chm. of board, Harold W. McMillen; (1) D. W. McMillen, Jr.; (2) Geo. D. MacLean; (2) Chas. W. Crowe; (2) Norman F. Kruse; (2) Paul E. Hensel; (2) Jake L. Kridler; (2) W. E. Huge; (2) Richard O. Westley; (2, 5) R. B. Parrott; (2, 8) B. A. Townsend; (3, 4) Edward T. Schele; astt. to the president, John L. Andreas; asst. secy. and controller, Richard N. Allen; asst. secy., Donald O. Cuthbert. Processor of soybeans and manufacturer of "Master Mix" poultry and livestock concentrates and complete feeds. Central Thrifty-Fifty, Fish 'n Fifty and Forty-Four soybean oil meal, "Centrol" lecithin. "Centrol" soybean oil and soybean oil products.

**Frankfort—SWIFT & CO.** Main office Chicago. (5, 9) H. B. Parker; (7) H. S. Chittick; (8) T. Nolan. "Swift's" soybean oil meal.

**Indianapolis—CENTRAL SOYA CO., INC.**, chemistry div., 1160 W. 18th St. Main office Fort Wayne. (7) Clayton J. Vogt. Solv., cap. 650 t. Storage cap. 3,000,000 bu. Industrial and edible soya products and derivatives.

**Lafayette—RALSTON PURINA CO.** Ph. 2-8421. Main office St. Louis. (15) George Bischoff; (7) John Quillin; (9) J. F. Tully. Hexane solv., cap. 325 t. Storage cap. 1,300,000 bu. "Purina Chows" mixed feeds. Served by WAB, NKP RR.

## IOWA

**Belmond—GENERAL MILLS, INC.**, oilseeds div. Ph. 231. Main office Minneapolis. (5, 8) H. C. Stokke; (7) W. B. Hotvet. Storage cap. 1,500,000 bu. "General Mills" 44% protein extracted soybean oil meal and 50% protein dehulled soybean oil meal.

**Cedar Rapids—CARGILL, INC.**, 1010 10th Ave. S.W. Ph. Empire 4-6148. Main office Minneapolis. (7) Fred Brosius; (9) C. W. Bohlander. Hexane solv. "Cargill" soybean oil meal. Served by CR, IC RR.

**Cedar Rapids—IOWA MILLING CO.**, 411 6th St. NE. Ph. 4-1503. (1, 4) Joe Sinaiko; (2) Wm. Sinaiko; (2) I. D. Sinaiko; (3) Samuel Maslon; (5, 6, 8) H. R. Scroggs; (7) L. Turner; (9) Gilbert Kinzey. Hexane solv., cap. 300 t. Storage cap. 600,000 bu. at plant. "Hy-grade" soybean oil meal. Served by MILW RR.

**Clinton — THE PILLSBURY CO.** Headquarters feed and soy div. Ph. Chapel 2-2110. General office, Minneapolis. (1) Paul Grot; (2) Dean McNeal; (3) P. F. Sherman; (4) T. Hanold; (5) Earl Nielsen; (6, 8) D. B. Lonn; (7) A. Ducharme; (9) R. L. Koll; gen. mgr., Clark Yager. Hexane solv., cap. 250 t. Storage cap. 1,000,000 bu. "Pillsbury's Best" soybean oil meal, mixed feeds and pellets. Served by CB&Q, MILW, CNW, RI RR.

**Des Moines—SPENCER KELLOGG & SONS, INC.** Main office 98 Delaware Ave., Buffalo 5, N. Y. (7) J. W. Pooley. Hexane solv. 44% protein soybean oil meal; pellets. Served by DMU RR.

**Des Moines—SWIFT & CO.**, Box 38, Highland Park Station. Main office Chicago. (5, 9) C. D. Whitaker; (7) G. G. Scott; (8) J. H. Bramfeld. "Swift's" soybean oil meal.

**Dike—FARMERS COOPERATIVE CO.** Ph. Sun-set 9-2416. (1) Horace D. Brown; (2) J. Holger Jensen; (3, 4) Albert Lauterbach; (5, 6, 8) C. M. Gregory; (7) Gerald Bruns; office mgr., Richard Goetzinger. 3 screw pr., cap. 45 t. Storage cap. 810,000 bu. "Felco" soybean oil meal, mixed feeds and pellets. Served by CNW RR.

**Manufacturers of . . .**



**For 41% Protein Expeller Type Meal . . .**

FARMERS' COOPERATIVE CO.  
DIKE, IOWA

WEST BEND ELEVATOR COMPANY  
WEST BEND, IOWA

BIG 4 COOPERATIVE PROCESSING ASSN.  
SHELDON, IOWA

**For 44% Protein Solvent Type Meal . . .**

NORTH IOWA COOPERATIVE PROCESSING ASSN.  
MASON CITY, IOWA

# IOWA MILLING CO.

## Soybean Processors

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44% Soybean  
Oil Meal

★  
Cedar Rapids, Iowa  
Phone EMpire 4-1503

## EXPELLER TYPE Old Process

*Hawkeye Brand*  
SOYBEAN OIL MEAL

TRUCK — CAR — BARGE

**MCKEE**  
FEED & GRAIN CO.

MUSCATINE IOWA

Phone AMherst 3-4343

## PROCESSORS—(Continued)

**Eagle Grove**—BOONE VALLEY CO-OP PROCESSING ASSN. Ph. 200, 201, 202. (1) Ralph Olsen; (2) Harry Bernard; (3, 4) Floyd Crim; (5) James A. Farrell; (6, 8, 9) Edward Olson; (7) Chas. G. Loux; asst. mgr., Donald Laurent. Hexane solv., cap. 260 t. Storage cap. 140,000 bu. "Co-op" soybean oil meal, mixed feeds and pellets. Served by CNW, CGW RR.

**Fort Dodge**—CARGILL, INC., 5 Central Ave. Ph. 7-1861. Main office Minneapolis. (7) C. R. Brooks; (9) W. J. Wheeler. Hexane solv. "Cargill" soybean oil meal and pellets. Served by IC, M&StL, CGW, FDDM RR.

**Gladbrook**—CENTRAL IOWA BEAN MILL. Ph. 63. (1, 3, 5, 6, 7, 8, 9) Paul H. Klinefelter; (2, 4) Florence M. Klinefelter. 3 screw pr., cap. 50 t. Storage cap. 450,000 bu. "Soya, Chief of the Feeds" soybean oil meal. Served by CNW, CGW RR.

**Iowa Falls**—RALSTON PURINA CO. Ph. 2591. Main office St. Louis. (5) A. I. Gleason; (7) Robert Harrington; (9) A. V. Couch. Hexane solv., cap. 300 t. Storage cap. 1,360,000 bu. "Purina Chows" mixed feeds. Served by RI, IC, CNW RR.

**Marshalltown**—MARSHALL MILLS, INC., 201 Washington St., P. O. Box 261. Ph. 9005. (1, 9) Fred Johnson; (2, 7) J. B. Saccaro; (3, 5, 6, 8) J. I. Johnson; (4) Vernon N. Johnson. 3 screw pr., cap. 70 t. Storage cap. 290,000 bu. 41% soybean oil meal. Served by M&StL, CNW, CGW RR.

**Mason City**—NORTH IOWA COOPERATIVE PROCESSING ASSN., 1605 19th St. SW. (1) Earl M. Dean; (2) Chas. F. Brooker; (3, 4) A. K. Carstens; (5, 8) H. D. Rissler, Jr.; (6, 9) Glenn Poehler; (7) Harold Tietjens. Hexane solv., cap. 250 t. Storage cap. 700,000 bu.; Manly, 130,000 bu. "Felco" soybean oil meal. Served by CGW, M&StL, RI, MILW, CNW, MC&CL RR.

**Muscatine**—McKEE FEED & GRAIN CO., 116 Spring St. Plant, Front and Oak Sts. Ph. Amherst 3-4343. (1) L. R. McKee; (2, 6, 8) Harry G. McKee; (3) Orval Fisher; (4) Lee L. McKee; (5) James A. Gould; (7, 9) Archie White. 2 exp., cap. 30 t. Storage cap. 250,000 bu. "Hawkeye" soybean oil meal, mixed feeds and pellets. Served by RI, MILW RR and river barges.

**Muscatine**—MUSCATINE PROCESSING CORP., 1600 Oregon St. Ph. Amherst 3-1321. (1) S. G. Stein; (2) G. A. Kent; (2) F. J. Prochaska; (3) R. C. Kautz; (4) F. G. Hocking; (5, 6, 8) M. C. Larson; (7, 9) R. D. Stroupe. Hexane solv., cap. 100 t. Storage cap. 500,000 bu. "Port City" soybean oil meal. Served by MILW, RI RR.

**Quimby**—SIMONSEN MILL RENDERING PLANT. Ph. 16. (5, 6, 7, 8, 9) D. W. Simonsen. 4 screw pr., cap. 50 t. Storage cap. 130,000 bu. "Simonsen" soybean oil meal, mixed feeds and pellets. Served by IC RR.

**Ralston**—FARMERS COOPERATIVE ASSN. Ph. 37. (1) Otis Knight; (2) Myron B. Gregory; (3, 4) Carl R. Cook; (5) William Y. McDonald; (6, 9) Karl Nolin; (7) Wm. Gregory; (8) Charles Lauridsen. 3 screw pr., cap. 50 t. Storage cap. 2,750,000 bu. "Farmers" soybean oil meal, mixed feeds and pellets. Served by CNW RR.

**Redfield**—IOWA SOYA CO. Ph. 400. (1, 4) J. J. Vanier; (2, 9) Donald C. Ogg; (3) Thomas B. Roberts; (5) Byrle Spillers; (6, 8) Keith O. Fuller; (7) D. O. Cameron. Hexane solv., cap. 500 t. Storage cap. 2,700,000 bu. "Redfield" soybean oil meal and pellets. Served by MILW RR.

SOYBEAN BLUE BOOK

## PROCESSORS—(Continued)

**Sheldon**—**BIG 4 COOPERATIVE PROCESSING ASSN.**, 111 9th St. (1) Doores Waanders; (2) Paul D. Vetter; (3, 4) L. M. Penning; (5, 8) Kenneth J. McQueen; (6, 9) Charles W. Hanson; (7) Reuel Jacobs. 8 exp., cap. 180 t.; solv., cap. 150 t. Storage cap. 600,000 bu. "Felco" soybean oil meal. Served by IC, MILW, CMO RR.

**Sioux City**—**SIOUX SOYA MILLS**, 11th and Clark St. P. O. Box 357. Ph. 8-0174. Affiliate of Sioux Industries, Inc. (1) E. N. Gruesskin; (2) Mike Sherman; (3, 4) Philip Sherman; (5, 6, 8) Dick Hoagland; (7) Ron Cole; (9) A. L. Peterson; traffic mgr., G. Dikeman; office mgr., V. Miller. Hexane solv., cap. 150 t. Storage cap., Sioux City, 425,000 bu. Sioux Falls, S. Dak., 300,000 bu. "Su Soy" soybean oil meal and pellets. "Super Soo" mixed feeds. Served by IC, MILW, CNW RR.

**Washington**—**CARGILL, INC.**, N. 15th St. and E. 3rd Ave. Ph. 820. Main office Minneapolis. (7) Raymond Roth; (9) Hugo Lensch. Hexane solv. "Cargill" soybean oil meal and pellets. Served by RI RR.

**Waterloo**—**BORDEN'S SOY PROCESSING CO.**, Westfield Ave. Ph. Adams 4-7531. Div. of Borden Co., New York. Also soya processing plant at Kankakee, Ill. (1) R. J. Kunz (N. Y.); (2, 6) J. R. Pentis (Chicago); (3, 4, 9) P. J. Queroli; (5, 8) J. Schmicher; (7) F. P. Parkin; gen. mgr. soy and feed supplements, E. J. Brubaker (N. Y.). Hexane solv., cap. 240 t. Storage cap. 1,000,000 bu. "Borden's" soybean oil meal. Served by WCF&N and RI RR.

**West Bend**—**WEST BEND ELEVATOR CO.** Ph. 4371. (1) Earnie Schmidt; (2) Ely Grimm; (3) R. W. Rittgers; (5, 6, 8) R. W. Jurgens; (7) Harold Baas. 3 exp., cap. 30 t. Storage cap., 575,000 bu. "Felco" soybean oil meal and mixed feeds. Served by RI RR.

## KANSAS

**Emporia**—**KANSAS SOYA PRODUCTS CO., INC.**, E. 5th Ave. Ph. 3000. (1, 4) John J. Vanier; (2, 3) E. E. Steerman; (2, 5, 6) and gen. mgr., Elmer L. Buster; (7) T. R. Barnhart; (8) Robert H. Wise. Hexane solv., cap. 250 t. Storage cap. 1,300,000 bu. at Emporia, Hartford, Strawns and Olather. "Sunflower" soybean oil meal and pellets; "Sunflower" and "Lasso" mixed feeds. Served by ATSF RR.

**Girard**—**PRODUCERS COOPERATIVE ASSN.** Ph. 192. (1) Marvin Green; (2) Homer Perry; (3, 4) Lawrence Clausen; (9) C. W. Scammell. 2 screw pr., cap. 40 t. Storage cap. 200,000 bu. "Producers" 41% soybean oil meal; "Producers," "Farmers Special," and "Co-Op Open Formula" mixed feeds and pellets. Served by SLSF, ATSF RR.

**Wichita**—**SOY-RICH PRODUCTS, INC.**, 1501 N. Mosley. Ph. Amherst 5-9635. (1, 6) Ralph S. Moore; (2) War O. Brooks; (2) Geo. S. Armstrong; (3, 4) Elmer C. Moore; (5, 8) B. E. Henline; (7) Jess Turner; (9) J. W. Thelman. Blaw-Knox hexane solv., cap. 150 t. Storage cap. 1,100,000 bu. "Four-Leaf Clover" 44% and 50% protein soybean oil meal and pellets. Served by ATSF, MP, RI, SLSF, MV RR.

## KENTUCKY

**Henderson**—**OHIO VALLEY SOYBEAN COOPERATIVE**, P. O. Box 338, Outer 5th St. Ph. Valley 6-3921. (1) O. D. Keck; (2) James R. Rash, Jr.; (3, 4, 5, 6, 8, 9) A. I. Reisz. Anderson solv., cap. 100 t. Storage cap. 740,000 bu. "Cardinal Quality" 44% soybean oil meal; "Cardinal" mixed feeds. Manufacture pellets on order only. Served by L&N, IC RR.

**Louisville**—**RALSTON PURINA CO.**, soybean div. (5) H. N. Perksom; (7) Jack Gardner; (9) W. L. Golden.

**Owensboro**—**OWENSBORO GRAIN CO.** (1) Wm. M. O'Bryan; (2) Henry E. O'Bryan; (3) Hugh P. Aud. Solv., cap. 125 t. Storage cap. 600,000 bu. "Ograco" 44% solv. soybean oil meal.

## LOUISIANA

**New Orleans**—**SOUTHERN COTTON OIL DIV.**, Wesson Oil & Snowdrift Co. Inc., 210 Baronne St. Main office. (1) E. A. Geoghegan; (2) M. W. Lyons; (2) F. L. Morgan.

**West Monroe**—**UNION OIL MILL INC.**, P. O. Box 617. Ph. 6141, 3-6657, 3-6658. (1, 5, 6, 8, 9) C. W. Wallace; exec. vice pres., Alfred Jenkins; (2) F. W. Scott; (3, 4) G. F. Wallace; (7) R. W. May. 4 exp., cap. 150 t. Storage cap. 300,000 bu. "Union" soybean oil meal and pellets; "Union-Mix" mixed feeds. Soybean operations about 1/6. Served by IC RR.

## MINNESOTA

**Dawson**—**TRI-COUNTY CO-OP. SOYBEAN ASSN.** Ph. 32. (1) C. M. Hanson; (2) Ralph B. Hill; (3) M. Enevoldson; (4) J. Lideen; (5, 6, 9) Joe Givens; (7) D. A. Crane; (8) Dave Owen. Hexane solv., cap. 75 t. Storage cap. 210,000 bu. "Dawson" soybean oil meal. Served by M&StL RR.

## SUNFLOWER BRAND

Hexane Extracted  
44% Soybean Meal

CAR OR TRUCK LOTS

PHONE 3000 - EMPORIA, KANSAS

KANSAS SOYA PRODUCTS CO., INC.  
EMPORIA, KANSAS



## PROCESSORS—(Continued)

**Halstad**—HALSTAD ELEVATOR CO. INC. Ph. plant; Gladstone 6-6575; office, GL-62235. (1) Erwin Warner; (2) Neom Helgoe; (3, 4) Bennett Aarestad; (5) Carl Nervig; (6, 9) O. D. Bervig; (7, 8) C. N. Haugse. 4 exp., cap. 51 t. Storage cap. 100,000 bu. "Valley Giant" soybean oil meal. Served by GN RR.

**Mankato**—ARCHER-DANIELS-MIDLAND CO., 3rd and Harper. Ph. 7947. Main office Minneapolis. (7) Allan Colby. Hexane solv. "Archer" 44% and 50% soybean oil meal; "Archer" and "Bostryn" mixed feeds; "Archer" pellets; defatted, low-fat soy flour. Served by CMO RR.

**Mankato**—HONEYMEAD PRODUCTS CO. Ph. 7911. (1, 5, 6) L. W. Andreas; (2) W. B. Cox; (2, 3, 9) J. I. Maslon; (4) chm. of board, D. O. Andreas; (7) V. Boettcher; (8) C. T. Mullan. Hexane solv., cap. 1,200 t. Storage cap. 2,000,000 bu. "Honeymead" soybean oil meal. Served by CNW, CMO, MILW, CGW RR.

**Minneapolis**—ARCHER-DANIELS-MIDLAND CO., 700 Investors Bldg. Ph. Federal 3-2112. Plants at Decatur, Ill., Mankato, Minn. and Esvale, Ohio. (1) T. L. Daniels; (2, 6) A. C. Hoechne; (3) P. S. Duff; (4) S. S. Adair; (5) R. K. Davies; (8) Edward O. Pashke.

**Minneapolis** 15—CARGILL, INC., 200 Grain Exch. Plants at Chicago; Cedar Rapids, Fort Dodge and Washington, Iowa; Savage, Minn.; Memphis, Tenn. (1) Cargill MacMillan; (2) F. M. Seed; (3) A. G. Egermayer; (4) C. W. Woopers.

**Minneapolis**—GENERAL MILLS, INC., oilseeds div., 9200 Wayzata Blvd. Ph. Liberty 5-2811. Plants at Belmond, Iowa, and Rossford, Ohio. (1) S. D. Andrews, Jr.; (2) F. H. Hofner; (6) W. E. Flumerfelt; (8) L. R. Brewster; (9) G. W. LaLone. "General Mills" 44% protein extracted soybean oil meal and 50% protein dehulled soybean oil meal.

**Minneapolis** 21—MINNESOTA LINSEED OIL CO., 25 44th Ave. N.E. Ph. SU-89011. (1) E. H. Russell; (2) V. Wurtele; (3, 4) J. D. O'Keefe; (5) L. L. Kreber; (6) R. J. Lindquist, Jr.; (7, 9) George N. Walker; (8) W. E. O'Connor. Solv.; 18 exp., cap. 500 t. Storage cap. 3,000,000 bu. "Minnesota" soybean oil meal and pellets. Served by NP RR.

**Preston**—PRESTON SOYA MILLS, INC. Registered office, Mapleton, Minn. Ph. 4-3211, 4-3277; Preston, 306. (1, 2) Wallace E. Frank; (3, 4, 5, 6, 8) Edward G. Frank; (7, 9) Ed Steinkopf. 3 exp., cap. 78 t. Storage cap. 225,000 bu. "Presto" soybean oil meal. Served by MILW RR.

**Savage**—CARGILL, INC. Ph. Tuxedo 1-8641. Main office Minneapolis. (7) Richard Ehrmann. Hexane solv. "Cargill" soybean oil meal. Served by MN&RS RR.

## MISSISSIPPI

**Belzoni**—MISSISSIPPI OIL MILLS, INC. (7) H. C. Switzer; (9) S. A. Pittman. 9 hydraulic pr., cap. 50 t. Storage cap. 150,000 bu. Soybean operations 4,000-8,000 t. Served by IC RR.

**Clarksdale**—PLANTERS MFG. CO. Ph. Main 4-2571. (1) C. G. Smith; (2) C. G. Bobo; (2) E. L. Anderson, Jr.; (3, 4, 5, 6, 8) A. K. Shaifer. 4 exp.; hexane solv., cap. 200 t. Storage cap. 500,000 bu. 44% protein solv. extracted soybean oil meal. Served by IC RR.

**Corinth**—BUCKEYE CELLULOSE CORP. Dist. mgr., A. J. Vaughan, Jr.; (7) N. A. Garrison.

**Greenville**—MISSISSIPPI OIL MILLS, INC. (5, 6, 8, 9) Hal Harris; (7) B. C. Lundy. 16 hydraulic pr., cap. 85 t. Storage cap. 250,000 bu. Soybean operations 7,000 t. Served by C&G, IC RR.

**Greenville**—SOUTHERN COTTON OIL DIV., Wesson Oil & Snowdrift Co. Inc., 815 Nelson St. Ph. 5474. Main office New Orleans. (7) H. M. Easley; (9) M. D. Kolb. French hexane solv. and 5 French screw pr. "Sco-Co" soybean oil meal. Served by IC, C&G RR.

**Greenwood**—MISSISSIPPI OIL MILLS, INC. (7) G. R. Simpson; (9) E. C. Mason. Solv., cap. 100 t. Storage cap. 250,000 bu. Soybean operations 10,000 t. Served by IC RR.

**Grenada**—MISSISSIPPI OIL MILLS, INC. (7) E. C. Barnette; (9) J. H. Adams. 2 exp., cap. 50 t. Storage cap. 3,000 t. Soybean operations 2,000 t. Served by IC RR.

**Hollandale**—MISSISSIPPI OIL MILLS, INC. (7) W. E. Campbell; (9) Hal Harris. Solv., cap. 100 t. Storage cap. 250,000 bu. Soybean operations 7,000 t. Served by IC RR.

**Jackson**—DELTA COTTON OIL & FERTILIZER CO., Valley at Florence St., P. O. Box 899. Ph. 2-3624; LD 67. (1, 5, 6) Alfred Jenkins; (2) W. R. Barrow; (2) Jas. C. Bolton; (3, 4) L. D. Hamilton; (7) R. F. Anderson. 4 screw pr.; Blaw-Knox hexane solv., cap. 150 t. Soybean operations 10,000 t. Served by IC RR.

**Jackson** 5—MISSISSIPPI OIL MILLS, INC., 1225 Plaza Bldg., general offices. Soybean crushing mills at Belzoni, Greenville, Greenwood, Grenada, Hollandale, Indianola, Jackson, Kosciusko and Magnolia. (1) J. F. Barbour II; (2) R. W. Coleman; (3, 4) J. H. Freeman. Gen. mgr., Mississippi Cottonseed Products Co.

**Jackson**—SOUTHLAND COTTON OIL CO., div. Anderson, Clayton & Co. Main office Paris, Tex.

**Kosciusko**—MISSISSIPPI OIL MILLS, INC. (7) J. O. Burrows; (9) H. S. Simmons. 3 exp., cap. 75 t. Storage cap. 85,000 bu. Soybean operations 2,000 t. Served by IC RR.

**Leland**—LELAND OIL WORKS. Ph. 33 and 22. Affiliate of Port Gibson Oil Works. (1) A. N. Brady; (2) C. W. Boomquist; (3, 4, 6, 8) Lomax Anderson; (5) S. D. Shaifer; (7) M. P. Letchworth; (9) S. B. Shaifer. Hexane solv. Served by IC RR.

**Magnolia**—MISSISSIPPI OIL MILLS, INC. (7) J. B. Stanfill; (9) G. E. Covington. 3 exp., cap. 75 t. Storage cap. 250,000 bu. Soybean operations 2,000 t. Served by IC RR.

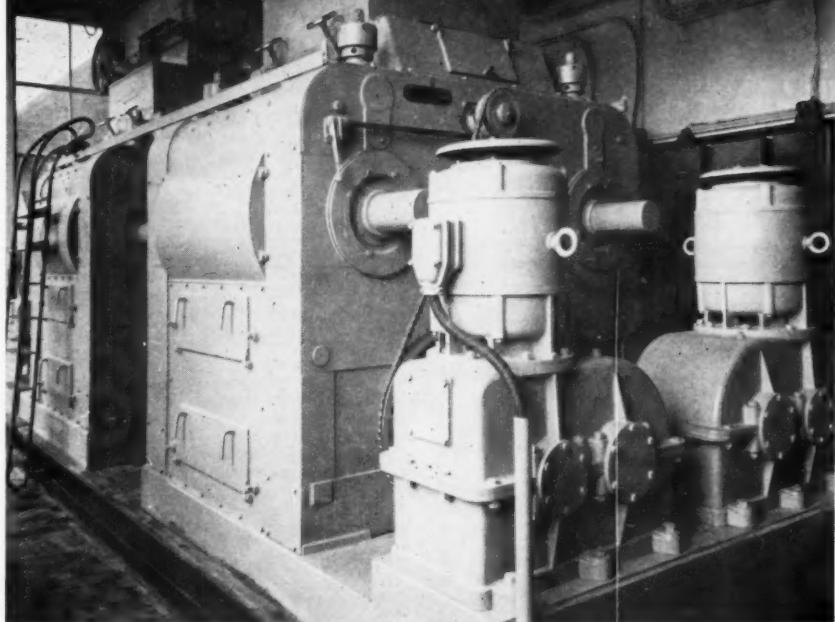
**Marks**—RIVERSIDE OIL MILL. Gen. mgr., Wm. King Self. 5 screw pr., cap. 180 t.; Anderson hexane solv., cap. 175 t. Storage cap. 750,000 bu. "Riverside" soybean oil meal. Served by IC RR.

## MISSOURI

**Kansas City**—RALSTON PURINA CO., 2334 Rochester Ave. Ph. Victor 1316. Main office St. Louis. (5) F. G. Franze; (7) C. C. Ward; (9) E. G. Hotchkiss. Solv., cap. 350 t. Storage cap. 2,250,000 bu. "Purina Chows" mixed feeds.

**Mexico**—M.F.A. GRAIN & FEED DIV., Missouri Farmers Association, Inc. Ph. JU-14195. Main office 249 Cherokee St., St. Joseph, Mo. (1) F. V. Heinkel; (2) L. O. Wallis; (3) R. J. Rosier; (7) John A. Botkin; (9) Kermit F. Head; gen. mgr., A. J. Louth; off. mgr., Bert Thomas. 4 exp., cap. 80 t. Storage cap. 1,000,000 bu. "M.F.A." soybean oil meal, feeds and pellets. Served by WAB, GM&O, CB&Q RR.

*Built for heavy duty!*



Battery of high-capacity Buhler Four-Roller Flaking Mills, type MWO

## Reduce Power and Increase Capacity with this new Flaking Mill

### **Buhler Offers:**



- Complete line of seed cleaning equipment
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- **BUHLER THERMO-PNEUMATIC** . . . a pneumatic conveyor system which cools the conveyed product (for example: extraction meals) before packing or storing
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## PROCESSORS—(Continued)

**New Madrid**—RALSTON PURINA CO. (7) J. W. Anderson; (9) E. B. Golden.

**St. Joseph**—**DANNEN GRAIN & MILLING CO.**, P. O. Box 429. Plant 900 Lower Lake Rd. Ph ADams 3-6161. (1) Dwight L. Dannen; (2) George O. Lines; (2) F. A. Mannschreck; (2) R. W. Waite, Jr.; (2) Fred C. Woelfling; (2, 6) E. A. Gumbert; (3) M. E. Dawson; (4) Charles H. Mannschreck; (5) A. E. Frank; (7) George Lippold; (8) C. T. Stover; (9) Ray Rigenbach. Hexane solv., cap. 300 t. Storage cap. 43,000,000 bu. at St. Joseph and branches in Iowa, Missouri, Kansas, Nebraska, Oklahoma, Colorado, and Illinois. "Dannen" soybean oil meal, mixed feeds and pellets. Served by MP, CB&Q, ATSF, RI, CGW, UP RR.

**St. Louis**—RALSTON PURINA CO., 835 S. 8th St. Plants at Lafayette, Ind.; Bloomington, Ill.; Iowa Falls, Iowa; Kansas City, Mo. (1) Ray E. Rowland; (5, 8) Donald B. Walker; (6) Lamar Kishlar. "Purina Chows" mixed feeds.

### NEBRASKA

**Fremont**—**FREMONT CAKE & MEAL CO.** Ph. Park 1-5670. (1) John J. Vanier; (2) Harry B. Lilly; (3, 4, 5, 6, 9) Harry E. Wiysel; (7) Del Gaeth; (8) George Goodhard. Solv., cap. 90 t. Storage cap. 675,000 bu. Served by UP, CB&Q, CNW RR.

**Lincoln 1**—**GOOCH MILLING & ELEVATOR CO.**, 6th and South Sts. Ph. 3-2345. (1) H. B. Lilly; (2) J. J. Vanier; (3) Maria Scheidt; (4, 6, 9) M. R. Eightmy; (5) J. Floyd Chance; (7) Lloyd Graham. 2 screw pr., cap. 45 t. Storage cap. 500,000 bu. "Gooch's Best" mixed feeds. Served by CB&Q, UP, CNW, MP, RI RR.

### NEW YORK

**Buffalo**—**SPENCER KELLOGG & SONS, INC.**, 98 Delaware Ave. Ph. Cleveland 5850. Plants at Long Beach, Calif.; Chicago and Decatur, Ill.; Des Moines, Iowa; Bellevue, Ohio. (1) Howard Kellogg, Jr.; (2) R. L. Terrill; (2) F. W. Thomas; (2) W. L. Lafear; (2) Daniel J. Healy; (2, 5) R. B. Jude; (3) M. Smith; (4) C. L. Bruno; (6) R. L. Beyer; (8) R. E. Peterson; gen. supt., J. S. Williams. Hexane solv. "Spencer Kellogg's" 44% and 50% protein soybean oil meal; pellets; soy flour.

### NORTH CAROLINA

**Farmville**—**MORGAN OIL & REFINING CO.**, 600 W. Pine St. (1) Irvin Morgan, Jr.; (3, 4) W. F. Lane; (7) H. V. Dixon. 3 hydraulic pr., cap. 24 t. Storage cap. 35,000 bu. "Jocko" soybean oil meal. Served by EC, NS RR.

**Goldsboro**—**SOUTHERN COTTON OIL DIV.**, Wesson Oil & Snowdrift Co. Inc., P. O. Box 564. Ph. 196; LD 30. Main office New Orleans. (9) and dist. mgr., W. V. Westmoreland. 2 exp. "Sco-Co" 45% protein hydraulic soybean oil meal. Served by ACL, SOU, AEC RR.

**New Bern**—**NEW BERN OIL & FERTILIZER CO.** Ph. 3194, 3195. (1, 5, 6) John S. Weskett; (2) H. G. Swan; (3, 4) W. W. McCotter; (7) F. C. Shearin. 2 screw pr., cap. 40 t. Storage cap. 500,000 bu. "N-O-M" soybean oil meal, mixed feeds and pellets. Served by NS, AEC, ACL RR.

**Raleigh**—**RALSTON PURINA CO.** (7) J. F. Moody; (9) J. T. Wright.

**Rocky Mount**—**PLANTERS COTTON OIL & FERTILIZER CO.**, P. O. Box 912. Ph. 2-2131, 2-2132, 2-2133. (1) R. D. Gorham; (2) J. D. Robbins; (2) R. D. Gorham, Jr.; (2) J. G. Reed; (2, 5, 6, 8) W. T. Melvin; (2, 9) G. W. Gorham, Jr.; (3) T. H. Pitt; (4) J. L. Murphy; (7) C. J. Raynor. 12 hydraulic pr., cap. 60 t. Storage cap. 200,000 bu. "Planco" soybean oil meal. Served by ACL RR.

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## PROCESSORS—(Continued)

**Rocky Mount**—SOUTHERN COTTON OIL DIV., Wesson Oil & Snowdrift Co. Inc., P. O. Box 109, Ph. 2-3166. Main office New Orleans. (7) J. W. Wilson; (9) G. D. Coley, Jr. 2 exp., cap. 50 t. "Sco-Co" soybean oil meal. Soybean operations 25%. Served by ACL RR.

**Selma**—SELMA SOYBEAN CORP., P. O. Box 488. Ph. WO 5-2396. (1) Floyd Price, Jr.; (2) A. L. Perry; (2) A. Z. Thompson, Jr.; (3, 4, 5, 6, 8, 9) R. G. Gurley. Anderson solv., cap. 100 t. Storage cap. 500,000 bu. "Selsoy 44%" soybean oil meal and pellets; "50% Hy Protene" soybean oil meal; "Selsoy" soy flour. Served by ACL, SOU RR.

**Wilson**—FARMERS COTTON OIL CO., 510 E. Barnes St. Ph. 2154. (1, 5, 6) T. F. Bridgers; (2) C. P. Harris, Jr.; (2) E. R. Bridgers; (4) H. M. Rogers; (7, 9) W. G. Bryant. 15 hydraulic pr., cap. 75 t. Storage cap. 275,000 bu. 45% protein soybean oil meal. Soybean operations 20%. Served by ACL, NS RR.

### NORTH DAKOTA

**Grand Forks**—NORTH DAKOTA MILL & ELEVATOR. Ph. 4-5541. (5) Con Lillegard. (6) K. D. Ford; (7, 8) H. G. Jordheim; gen. mgr., P. R. Fossen. Hexane solv., cap. 45 t. Storage cap. 500,000 bu. "Dakota Maid" soybean oil meal, mixed feeds and pellets. Served by GN, NP RR.

### OHIO

**Bellevue**—SPENCER KELLOGG & SONS, INC. Main office 98 Delaware Ave., Buffalo 5, N. Y. (7) H. Stokely. Hexane solv. 44% and 50% protein soybean oil meal; pellets. Served by NKP, PRR.

**Cincinnati** 1—BUCKEYE CELLULOSE CORP. Main office. (2) R. B. Williams; (2) W. H. Knapp; (2) B. J. Gant.

**Cincinnati**—ARCHER-DANIELS-MIDLAND CO., 2795 Sharon Rd. Plant at Evendale. Ph. Princeton 1-3220. (5, 6, 8) Ray Fledderman; (7) Don Ramseyer. Served by NYC, PRR.

**Delphos**—DELPHOS GRAIN & SOY PRODUCTS CO., Ph. 5261. (1, 4) Floyd E. Hiegel; (2) Wm. J. Mericka; (3) John Marsh; (5) Paul Metzner; (6, 8) E. M. Wiecher; (7, 9) Walter J. Suever. Hexane solv., cap. 300 t. Storage cap. 1,500,000 bu. at Delphos and Lexington. Served by NKP, B&O, PRR.

**Fostoria**—SWIFT & CO. Main office Chicago. (5, 9) H. F. Lester; (7) E. H. Eubanks; (8) L. Chalfin. "Swift's" soybean oil meal.

**Marion**—CENTRAL SOYA CO., INC. Main office Fort Wayne. (9) Max Spencer. Solv., cap. 400 t. Storage cap. 5,000,000 bu. Central Thrifty-Fifty, Fish 'n Fifty and Forty-Four soybean oil meal, "Centrol" lecithin, "Centrol" soybean oil products, "Master Mix" concentrates and complete feeds.

**Painesville**—A. E. STALEY MFG. CO. Ph. Elmwood 4-3523. Main office Decatur, Ill. (8) Lyle Wiegand; (9) Thomas Longbons. Hexane solv. "Staley's" soybean oil meal 44% protein, "Hi-Pro-Con" 50% protein soybean oil meal, and "Staley's" soybean mill feed. Served by B&O, NYC, NKP RR.

**Rossford**—GENERAL MILLS, INC., oilseeds div. Ph. Lenox 6558. Main office Minneapolis. (5, 8) D. W. Moebius; (7) J. R. Wright. Storage cap. 1,500,000 bu. "General Mills" 44% protein extracted soybean oil meal and 50% protein de-hulled soybean oil meal.

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Plant Construction

## PROCESSORS—(Continued)

### OKLAHOMA

**Durant**—DURANT COTTON OIL & PEANUT CORP., 401 Railway Ave. Ph. 1900, 1901. (1) G. W. Morrow; (2, 5, 6, 8) W. H. Sands; (2, 9) G. W. Morrow, Jr.; (3) D. W. Sands; (4) Marie P. Morrow; (7) J. G. Enochs. 2 exp., cap. 40 t. Storage cap. 100,000 bu. "Durco" soybean oil meal and pellets. Served by SLSF, KOGG, MKT RR.

**McAlester**—MCALESTER OIL MILL CO., 14th and Washington. Ph. Garden 3-3710. (1, 5, 6, 8, 9) P. F. Rosso; (2) Jimmy Hall; (3, 4) J. A. Rosso; (7) H. D. Moore. 4 French pr., cap. 55 t. Storage cap. 150,000 bu. "Red Seal" soybean oil meal, mixed feeds and pellets. Soybean operations 3,000 to 6,000 t. per year. Served by RI, MKT RR.

**Muskogee**—MUSKOGEE COTTON OIL CO., 724 N. Mill St. Main office Chickasha Cotton Oil Co., Box 511, Fort Worth. (5, 8, 9) G. N. Irish; (7) J. E. Earl. 3 French pr., cap. 60 t. Storage cap. 260,000 bu. "Musco" and "Red Seal" soybean oil meal and pellets. Served by MKT, SLSF, MV, KOGG RR.

### SOUTH CAROLINA

**Columbia**—SOUTHERN COTTON OIL DIV., Weston Oil & Snowdrift Co. Inc., P. O. Box 840. Ph. 2-1903. Main office, New Orleans. (7) W. O. Bobb; (9) G. L. Hooks, Jr. 2 screw pr. Served by ACL, SOU RR.

**Kershaw**—KERSHAW OIL MILL. Ph. LD 25. (1) H. L. McPherson, Sr.; (2) Edna S. Stevens; (2) Fred E. Culverin, Sr.; (3) Jno. S. Davidson; (4) T. V. Hough; (7) Y. L. Copeland. 5 exp., cap. 125 t. Storage cap. 500,000 bu. "Palmetto" soybean oil meal. Soybean operations 40%. Served by SOU RR.

**Lancaster**—LANCASTER COTTON OIL CO. Affiliate Kershaw Oil Mill. (1, 5, 6) H. L. McPherson; (2, 4, 8) W. G. Taylor; (3) J. W. Medford; (7, 9) W. Ben Sowell. 2 exp., cap. 70 t. Storage cap. 150,000 bu. "Palmetto" soybean oil meal. Soybean operations 33%. Served by SOU, LC RR.

**Marion**—MARION COTTON OIL CO. Affiliate of Kershaw Oil Mill. (1, 5, 6, 8) H. L. McPherson; (3) John S. Davidson; (4) T. V. Hough; (7) Roy Peebles; (9) W. W. Snipes. 3 screw pr. Storage cap. 150,000 bu. Served by ACL RR.

### TENNESSEE

**Chattanooga**—CENTRAL SOYA CO., INC. Main office Fort Wayne, Ind. (9) Wendell E. Mann. Solv., cap. 500 t. Storage cap. 4,250,000 bu. Central Thrifty-Fifty, Fish 'n Fifty and Forty-Four soybean oil meal, "Central" lecithin; "Central" soybean oil products; "Master Mix" concentrates and complete feeds. Served by SOU RR.

**Memphis**—BUCKEYE CELLULOSE CORP. Mgr. seed buying, W. R. Flippin; dist. mgr., T. F. Horn; (7) Hollywood mill, W. E. Hassler.

**Memphis**—CARGILL, INC., 2510 Sterick Bldg., P. O. Box 277. (7) V. K. Behounek. Hexane solv. "Cargill" soybean oil meal and pellets. Served by SLSF, IC, MP RR.

**Memphis**—RALSTON PURINA CO., soybean div. (5) J. K. Sartain; (7) L. E. Pedrick; (9) A. I. Gleason.

**Memphis**—SWIFT & CO., P. O. Box 3867, Lamar Sta. Main office Chicago. (5, 9) E. C. McGee; (7) W. H. Stewart; (8) W. L. Morris. "Swift's" soybean oil meal.

**Nashville**—NASHVILLE COTTON OIL MILL CORP., 410 Chestnut St. (1, 6) E. Rice, Jr.; (2) S. H. Ridens; (3, 4) V. A. Wingate; (5, 9) Douglas Rainwater; (7) H. M. Woodyard; (8) Earl F. Broden. Anderson solv., cap. 125 t. Storage cap. 525,000 bu. "Famous" mixed feeds and pellets; soybean oil meal. Soybean operations 65%. Served by N&C, L&N RR.

**Tiptonville**—WEST TENNESSEE SOYA MILL, INC. Ph. AL-37162, AL-37211. (1) J. E. Vaughn; (2) Peter Frederickson; (3, 4) W. A. McCutchen; (5, 6, 8, 9) Tyler Terrett; (7) Thos. Hutchinson. Allis-Chalmers hexane solv., cap. 150 t. Storage cap. 950,000 bu. 44% protein solv. ext. soybean oil meal. Soybean operations 35,000 t. Served by IC RR.

### TEXAS

**Gatesville**—CORYELL COUNTY COTTON OIL CO. Ph. 6. (5, 6) and owner, R. S. Ray; (7) Robert C. Howell; (8, 9) Joe L. Galey. 4 French screw rr., cap. 80 t. Storage cap. 100,000 bu. Soybean oil meal and pellets; "Golden Gate" mixed feeds. Principal crush is cottonseed. Served by SWW RR.

**Hamlin**—MID WEST COOPERATIVE OIL MILL, P. O. Box 398. Ph. 174, 874. (1) Jack B. Fry; (2) Wallace Allison; (3, 4, 5, 6, 8, 9) R. L. McClung; (7) W. W. Rogers. 4 French screw pr., cap. 120 t. Storage cap. 235,000 bu. Mixed feeds and pellets. Crush soybeans only when cottonseed not available. Served by MKT, ATSF RR.

**Sherman**—GENERAL VEGETABLE OIL CO. Ph. Twinbrook 2-9171. Also office Fort Worth. Affiliate of Kimball-Norris Mills. (1, 6) A. Norris; (2) Kay Kimbell; (2, 5, 8) J. D. Morton; (3) B. J. Quinn; (7) J. H. Fryer; (9) F. D. Phillips. 7 screw pr., solv., cap. 240 t. cottonseed, 200 t. soybeans. Served by SP, CB, SLSF, MKT RR.

### CANADA

**Altona, Man.**—CO-OP VEGETABLE OILS LTD., P. O. Box 150. Ph. 62. (1) J. J. Peters; (3) Peter Brown; (5) John Funk; (6, 8, 9) John Enns; (7) Menna Funk. 3 exp., cap. 50 t.; solv., cap. 80 t. Storage cap. 250,000 bu. Soybean operations 350,000-500,000 bu. Served by CP RR.

**Fort William, Ont.**—EDIBLE OILS LTD., P. O. Box 130. Main office Winnipeg, Man. (1) K. A. Powell; (2) J. Gordon Ross; (3, 4) W. T. Powell; (7) R. A. Purves; (9) A. J. Lamminen. 4 exp., cap. 80 t.; solv., cap. 50 t. Storage cap. 50,000 bu. "Edible" soybean oil meal. Served by CN, CP RR.

**Hamilton, Ont.**—CANADIAN VEGETABLE OIL PROCESSING LTD., Victoria Ave. and Burlington St. (1, 5, 6, 8, 9) G. S. Boulter; (2) J. Reesor; (3, 4) G. H. Vinall; (7) B. Mooney. Anderson hexane solv., cap. 250 t. Storage cap. 650,000 bu. "CVOP" soybean oil meal. Served by CN RR.

**Toronto, Ont.**—TORONTO ELEVATORS LTD., 417 Queen's Quay W. Ph. Empire 4-7161. (1) J. D. Leitch; (2) R. C. Beokinshaw; (2) research and development, F. W. Present; (2, 5) A. D. Clark; (3) F. T. Carnegie; (4) G. W. Hawes; (6) W. G. Milliken; (7) C. Beatty; (8) J. Cormack; (9) R. S. Wayman; oil div. mgr., G. W. Stearn. 8 exp., cap. 150 t.; hexane solv., cap. 150 t. Storage cap. 4,000,000 bu. "Double Diamond" soybean meal; "Master" mixed feeds and pellets. Served by CN and CP RR.

**Toronto, Ont.**—VICTORY SOYA MILLS, LTD., 285 Fleet St. E. Affiliate of Procter & Gamble Co., Cincinnati, Ohio. Ph. Empire 2-8771. (2) and gen. mgr., E. L. Newman; (2, 3) G. Abrams; (2, 5) in charge purchases, A. R. Gillespie; (2, 7) R. G. Loftus; (2, 8) J. C. Henderson. Served by CN, CP RR.



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**Augusta, Ga.** — BUCKEYE CELLULOSE CORP., P. O. Box 540. "Buckeye."

**Bloomington, Ill.** — RALSTON PURINA CO. "Purina."

**Champaign, Ill.** — SWIFT & CO., soybean mill. "Swift's."

**Chicago, Ill.** — CARGILL, INC., 122nd St. and Torrence Ave. "Cargill."

**Danville, Ill.** — LAUHOFF SOYA CO.

**Decatur, Ill.** — ARCHER-DANIELS-MIDLAND CO., P. O. Box 1030. "Archer."

**Decatur, Ill.** — CHECKERBOARD SOYBEAN CO. "Purina."

**Decatur, Ill.** — SPENCER KELLOGG & SONS, INC.

**Decatur, Ill.** — A. E. STALEY MFG. CO., 22nd and Eldorado Sts. "Hi-Pro-Con."

**Gibson City, Ill.** — CENTRAL SOYA CO., INC. "Central Thrifty-Fifty and Fish 'n Fifty."

**Kankakee, Ill.** — BORDEN'S SOY PROCESSING CO., div. of Borden Co., New York. "Borden's."

**Taylorville, Ill.** — ALLIED MILLS, INC. "Wayne."

**Decatur, Ind.** — CENTRAL SOYA CO., INC. "Central Thrifty-Fifty and Fish 'n Fifty."

**Frankfort, Ind.** — SWIFT & CO., soybean mill. "Swift's."

**Lafayette, Ind.** — RALSTON PURINA CO. "Purina."

**Belmond, Iowa** — GENERAL MILLS, INC., oil-seeds div. "General Mills."

**Cedar Rapids, Iowa** — CARGILL, INC., 1010 10th Ave. S. W. "Cargill."

**Clinton, Iowa** — THE PILLSBURY CO., feed and soy div. "Pillsbury."

**Des Moines, Iowa** — SWIFT & CO., soybean mill, Box 38, Highland Park Station. "Swift's."

**Iowa Falls, Iowa** — RALSTON PURINA CO. "Purina."

**Redfield, Iowa** — IOWA SOYA CO.

**Wichita, Kans.** — SOY-RICH PRODUCTS INC., 1501 N. Mosley. "Four-Leaf Clover" meal and pellets.

**Henderson, Ky.** — OHIO VALLEY SOYBEAN COOPERATIVE, Outer 5th St., P. O. Box 338. "Cardinal."

**Louisville, Ky.** — RALSTON PURINA CO., soybean div. "Purina."

**New Orleans 12, La.** — SOUTHERN COTTON OIL DIV., Wesson Oil & Snowdrift Co., Inc., 210 Baronne St.

**Mankato, Minn.** — ARCHER-DANIELS-MIDLAND CO., 3rd and Harper. "Archer."

**Mankato, Minn.** — HONEYMEAD PRODUCTS CO. "Honeymead Hi-Energy."

**Marks, Miss.** — RIVERSIDE OIL MILL. "River-side."

**Kansas City, Mo.** — RALSTON PURINA CO. "Purina."

**New Madrid, Mo.** — RALSTON PURINA CO. "Purina."

**St. Joseph, Mo.** — DANNEN MILLS, INC. "Dannen."

**Raleigh, N. C.** — RALSTON PURINA CO. "Purina."

**Selma, N. C.** — SELMA SOYBEAN CORP., P. O. Box 488. "Hy Proteine."

**Bellevue, Ohio** — SPENCER KELLOGG & SONS, INC.

**Fostoria, Ohio** — SWIFT & CO., soybean mill. "Swift's."

**Marion, Ohio** — CENTRAL SOYA CO., INC. "Central Thrifty-Fifty and Fish 'n Fifty."

**Painesville, Ohio** — A. E. STALEY MFG. CO. "Hi-Pro-Con."

**Rossford, Ohio** — GENERAL MILLS, INC., oil-seeds div. "General Mills."

**Chattanooga, Tenn.** — CENTRAL SOYA CO., INC. "Central Thrifty-Fifty and Fish 'n Fifty."

**Memphis 8, Tenn.** — BUCKEYE CELLULOSE CORP., Hollywood mill, P. O. Box 6746. "Buck-eye."

**Memphis, Tenn.** — RALSTON PURINA CO., soybean div. "Purina."

**Hamilton, Ontario** — CANADIAN VEGETABLE OIL PROCESSING LTD., Victoria Ave. and Burlington St. "C.V.O.P."

**Toronto, Ontario** — VICTORY SOYA MILLS LTD., 285 Fleet Street East. "Veeline."

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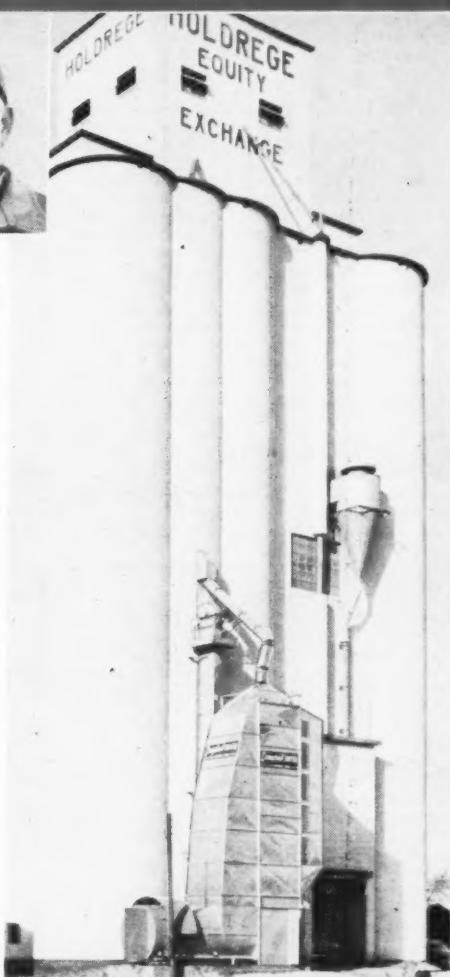
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# FOREIGN PROCESSORS

Includes the firms about which the editors were able to obtain information. Not a complete list.

## BELGIUM

**Izegem**—S. A. HUILERIES VANDEMOORTELE, Boulevard Albert, 2. Ph. 57, 237, 351, 1275. (1) Adhemar Vandemoortele; (5, 6) Raymond Vandemoortele. Hexane solv., cap. 400 t. Storage cap. 700,000 bu. Served by Societe Nationale des Chemins de Fer Belges RR.

## BRAZIL

**Campinas, S. P.**—CIA SWIFT DO BRASIL, S. A. Ph. 3921-2-3. Affiliate of International Packers Ltd. Head office, Rua Formosa 367, S. Paulo. (7) R. H. Welker. 6 exp., cap. 36 t.; 2 high-speed exp., cap. 60 t.; solv., cap. 90 t. Storage cap. 400,000 bu. "Swift-Plate" soybean oil meal; "Swift" mixed feeds. Soybean operations 2,000-5,000 tons. Served by Paulista-Mogiana-Sorocaba RR.

**Rio Preto, S. P.**—CIA SWIFT DO BRASIL, S. A. Ph. 1711, 2750. Affiliate of International Packers Ltd. Head office, Rua Formosa 367, S. Paulo. (7) D. J. Lima. 2 high-speed exp., cap. 60 t. Storage cap. 300,000 bu. "Swift-Plate" soybean oil meal. Soybean operations 2,000-5,000 tons. Served by Araraquara RR.

**Sao Paulo**—CIA SWIFT DO BRASIL, S. A., Rua Formosa 367. Head office, Affiliate of International Packers Ltd. (1) R. C. Zircher; (2) R. J. Dolan; (3, 4) H. M. Barnard; (5, 6, 8, 9) O. H. Oberhoff.

**Santa Rosa, RGS**—INDUSTRIA GAUCHA DE OLEOS VEGETAIS, S. A., P. O. Box 81. Directors, Charles K. W. Tse, Eurico Leusin, S. M. Ling and Joao E. Meneghetti. 4 screw pr., cap. 25 t. Complete refining — soybeans, linseed, peanut.

## CUBA

**Habana**—EXTRACTORA CUBANA DE ACEITES VEGETALES, S.A., Baratillo 9. Ph. 4-8439. (1) Dr. Carlos Du-Quesne; (2, 5, 6, 8) Ing. Gabriel G. Aurolles; (3) Dr. Jorge de Lamas; (4) CP. Rafael Dalmau; (7, 9) Ing. Manuel Villapol. 5 exp., cap. 100 t. Storage cap. 80,000 bu.

## DENMARK

**Aarhus**—AARHUS OLIEFABRIK A/S, Bruunsgade 27. Ph. 26000. Mg. dir., H. L. Knudsen; (5) H. R. Jacobsen.

**Copenhagen**—DANISH OIL MILLS & SOAP FACTORIES LTD., 11, Lyngbyvej. Ph. Ryvang 8612. (1) F. Brandt-Hansen; (3) C. C. Clausen; (4) Harry Nielsen; (5) S. Guldner; (6) P. Lindhardt; (7) P. Mengel; (9) Wm. Reby. 4 exp. and solv. Storage cap. 75,000 bu.

## ENGLAND

**London, E. C. 4**—BRITISH OIL & CAKE MILLS LIMITED, Unilever House, Blackfriars. Four plants in England and one in Scotland. Chm., G. Chipperfield; vice chm., A. E. Robinson; tech. dir., J. G. Collingwood. Exp. and hexane solv. "B.O.C.M. Ltd." mixed feeds and pellets. Soybean operations part time. Served by British Railways.

**London, E. C. 3**—SOYA FOODS LTD., Colonial House, 30/34 Mincing Lane. Ph. Mansion House 9052/3. Plant at Jacob St., Bermondsey, London S. E. 1. Affiliate of Spillers Ltd. Storage cap. 40,000 bu. "Soyolk" and "Dia'oy"—full-fat soya flours. Served by British Railways.

## FINLAND

**Raisio**—OY KASVIOLJY-VAXTOLJE AB. Ph. Turku 10891. (1) K. E. Kivivuori; (4) Paavo Hirvonen; (5) Mauri Karvetti; (6, 8) Pauli Hollmen; (7) Lars Willberg; (9) Pentti Moilanen. 4 exp., cap. 180 t. Solv., cap. 180 t. Storage cap. 815,000 bu. "Kasvioljy" soybean oil meal; "Soijarouhe," "Herkkuoljyvaki-rehuseos," "Voima-Herkku," and "Hevos-Herkku" mixed feeds; "Kana-Herkku" pellets. Soybean operations 60%.

## FRANCE

**Bordeaux**—GRANDE HUILERIE BORDELAISE, 8 cours de Gourgue. Plant at 180 quai de Brazza, Bordeaux-Bastide. (1) M. Philippart. 11 screw pr., cap. 150 metric t.; solv., cap. 150 metric t. Storage cap. 10,000 metric t. "Croix-Verte" soybean oil meal; "Nutrix" mixed feeds; "Fluidor" lecithin. Served by SNCF RR.

**Paris 8**—HUILERIES PIERRE MARCHAND S. A., 37, Rue du General Foy. Ph. Europe 50-56. Enterprise at Petite Synthe (Nord.) (1) M. Maurice Marchand; (2) M. Andre Marchand; (7) Monsieur Andre Doyon. 10 exp., cap. 120 t.; hexane solv., cap. 75 t. Storage cap. 6,000 metric t. Soybean operations 3,000 metric tons.

## GERMANY

**Hamburg 28**—STETTINER OELWERKE IN HAMBURG A. G. Ph. 386991, Telex 0211081. (1) Mr. Saltzwedel; (2, 4, 5) Dr. Otto Tewaaq; (3, 7) Mr. Tiefenbacher; (6, 8) Mr. Viergutz. 12 exp., cap. 150 t.; solv., cap. 250 t. Storage cap. 5,000 t. "Sojaschrot Imperial" soybean oil meal.

**Hamburg-Harburg**—HARBURGER OELWERKE BRINCKMAN & MERGELL, Seehafenstrasse 2. Ph. 77 11 41. (1) Max John Brinckmann; (2) K. V. v. Sydow; (4) W. Plett; (5) W. A. Sostmann; (6) R. Zehe; (7) H. v. Westernhagen; (8) W. Seiffert; (9) H. Schnakenberg; chief chemist, Dr. J. Baltes. Screw pr., cap. 750 t.; German special solvent 75/85 C or hexane, cap. 750 t. Storage cap. 900,000 bu. "Hobum" soybean oil meal. Served by Hamburg-Unterelbe, Anchlussgleis 11 RR.

**Hamburg-Harburg**—F. THORL'S VEREINIGTE HARBURGER OELFABRIKEN AKTIENGESELLSCHAFT, Schliessfach 47. Ph. Hamburg 7-12-31. (4) Beckmann; (5, 8) Dr. Schraud; (6) Halder; (9) Hanel/Jeurgens. Benzine solv., cap. 750 t. Storage cap. 32,000 t. "Thori" soybean oil meal. Soybean operations 25-30%. Served by Deutsche Bundesbahn RR.

**Hamburg-Wilhelmsburg**—HANSA-MUHLE A. G., Kohlbrandstr. 1. Plants for extraction, oil refining and hardening at Hamburg-Neuhof. (1) Dr. H. Carls and Erich Ancker; (7) A. Kleinheimpel. 4 screw pr., cap. 360 t.; benzine solv., cap. 500 t. Storage cap. 440,000 bu. Sojaschrot "Hansacithin Extra" lecithin.

**Krefeld-Uerdingen**—HOLTZ & WILLEMSSEN K. G., Querstr. 30. Ph. Krefeld 43251. Mgr.: Geschaeftsfuehrer: Dr. ing. Helmut Bock, Reiner Willemsen. Benzine solv., cap. 400 t. Storage cap. 10,000 tons. "Holtz & Willemsen" soybean oil meal.

**Neuss/Rhein**—WALTER RAU NEUSSER OELWERKE A.G., Industriestrasse 36. (1) Dr. Hubertus Carls; (5) Erich Ancker.

**Neuss/Rhein**—C. THYWISSEN, Olfabrik. (1) Josef, Carl and Hermann Thywissen. 17 exp., cap. 350 t.; solv., cap. 600 t. Also refining. Storage cap. 350,000 bu. Lecithin.

## FOREIGN PROCESSORS

(Continued)

### ISRAEL

**Haifa** — "SHEMEN" ISRAEL OIL INDUSTRY LTD., Box 136. Ph. 4681, 4682, 4683. Mgr. dir., Uriel Shalon; (5) Samuel Ousiel; (7, 9) Joseph Zaretsky. 10 screw pr., cap. 150 t. Allis-Chalmers and De Smet solv., cap. 225 t. Storage cap. 330,000 bu. "Shemen" soybean oil meal. Approximate soybean operations up to 4,500 tons monthly. Served by Haifa Port.

**Tel-Aviv** — CONSOLEX LTD., P.O.B. 823. Ph. 23217/8/9. Plant at Nahlat Izhak Quarter. Subsidiary of Izhar Oil Industry of Israel Ltd. Directors, M. Lichtenstein, A. L. Lichtenstein, S. Seginer; mgr., A. Zundelwitch; (3, 4) F. Berger; (5) Food Controller of the Government of Israel; (6, 8) M. Cohen; (7, 9) S. Barock, M. E. Hexane solv., cap. 120 t. Storage cap. 3,000 t. "Consolex" soybean oil meal. Soybean operations 10-12 months. Served by Haifa, Tel-Aviv, Lorry RR.

### JAPAN

**Handa City** — ASAHI OIL CO., LTD., 143, 10-Chome, Kamezaki-Cho. Ph. No. 6, No. 21 Kamezaki. (1) S. Kojima; (3) A. Kojima; (4) Y. Yamada; (5, 8) M. Yamada; (6) H. Dogaki; (7) Y. Nakamura. Hexane solv., cap. 53 t. Storage cap. 1,500 t. "Asahi Mame" soybean oil meal. Approximate soybean operations, 25 t. per day. Served by Taketoyo Line, Japanese National RR.

**Hokkaido** — HOKUO OIL CO., 6-Chome Nagaya-dori Asahikawa. Branch offices, Sinjuku-ku, Tokyo, and Sapporo Hokkaido. Ph. 16, 8303, 5950, 5951, 5952. (1) S. Morikawa; (2, 7) E. Kita; (3) T. Morikawa; (4, 5, 6, 8) S. Kagotani; (9) I. Wakamatsu. 2 screw pr., cap. 10 t.; hexane solv., cap. 167 t. Storage cap. 350,000 bu. "Hokuo" soybean oil meal and refined soybean oil. Soybean operations approximately 10,000 t. Served by Hokkaido Hakodate Honsen RR.

**Osaka** — NIHON KOYU KOGYO CO., LTD., No. 32 Bungo-Cho, Higashi-Ku. Ph. (94) 9551. Plant at Mizus hima, Kurashiki City. (1) K. Akaza wa; (2) T. Tabuchi; (3) S. Matsui; (4) Y. Miyata; (5) K. Matsumoto; (6) K. Yashimi; (7) T. Sakakihara. 2 exp., cap. 50 t.; solv., cap. 250 t. Storage cap. 350,000 bu. "NIKKO" soybean oil and other vegetable oils and meals.

**Osaka** — UEDA OIL MILL CO. LTD., 1222 Hanaten-cho Jyoto-ku. Ph. (33) 1456-8. (1) H. Ueda; (3) K. Inoue; (4) Y. Murakami; (5) C. Kashiyama; (6) N. Adachi; (7) Z. Morita; (8) M. Muramatsu; (9) K. Mitsukawa. 5 screw pr., cap. 50 t.; hexane solv., cap. 50 t. Storage cap. 14,000 bu. Approximate soybean operations, 1,000 tons per month. Served by National, Katamachi RR.

**Osaka** — YOSHIHARA OIL MILL, LTD., No. 1 Soze-cho, Kitaku. Ph. (44) 7651-7650(9). Plant at Imazu, Nishinomiya, Hyogoken. Ph. Nishinomiya 5501-5506(6). (1) J. Yoshihara; (2) H. Taniguchi; (3, 4) B. Saito; (5, 8) T. Nakamura; (6) K. Yatohji; (7) S. Kimoto; (9) T. Wada. Screw pr., cap. 300 t.; solv., cap. 500 t. "Gotoke" soybean oil meal. Served by Tokaido RR.

**Saga** — RIKENNOSAN KAKO CO. LTD., Otakara 375. Ph. 4184. (1) S. Uike; (2) G. Uike; (3) M. Higuchi; (4) S. Nozoe; (5, 6, 8) J. Imaichi; (7, 9) Y. Oikawa. 5 exp., cap. 20 t.; solv., cap. 75 t. Storage cap. 400,000 bu.

**Tokyo** — HOHNEN OIL CO., LTD., 5 2-chome Horidome-cho, Nihonbashi, Chuo-ku. Plants at Shimizu, Naruo, Skaide. Offices in Osaka, Nagoya, Sapporo. Chm., K. Sugiyama; (1) M. Sugiyama; mg. dir., M. Hirano and M. Sugiyama. Total daily cap., 1,200 t. "Hohnen" soybean oil, meal glue, lecithin and other vegetable oils and meals.

**Tokyo** — NISSHIN OIL MILLS LTD., 2, 2-chome, Shinjuku Chuo-ku. Plants at Yokohama and Kobe. Ph. Tokyo (55) 9191-9195, 9481-9483. (1) Y. Sakaguchi; (4) K. Fukagawa; (5) R. Niimi; (6) K. Yamagishi; (7) Kobe plant, K. Kito; (7) Yokohama plant, G. Itoh; (8) K. Yanagawa, 48 exp., cap. 210 t.; solv., cap. 400 t. Storage cap. 600,000 bu. "Daikyu" soybean oil meal and other vegetable meals; "NOM" soybean oil and other vegetable oils, glue, lecithin, distilled fatty acid; "Nishin" salad oil, cooking oil. Soybean operations 80,000 tons.

**Yao-City** — HIRANO OIL MILL LTD., 1293 Uematsu, Osaka Pref. Ph. Yao 440, 441. (1) H. Shimazu. 5 screw pr., cap. 15 t.; hexane solv., cap. 30 t. Storage cap. 20,000 bu. Mixed feeds. Approximate soybean operations 800 t. per month. Served by Kwansai line of Japan National RR.

**Yokkaichi** — KUMAZAWA VEGETABLE OIL MFG. CO., LTD., Suehirocho 10. Ph. 4125. (1) J. Hayashi; (3) M. Kumazawa; (9) K. Ogata, mg. dir., K. Kuzuhara; auditors M. Okumura, K. Mizutani, S. Toshimori; chief mg. partner, K. Nakayama; chief research worker, T. Kumazawa. 12 screw pr., cap. 102 t.; hexane solv., cap. 57 t. Storage cap. 81,000 bu. "Ichikawa" soybean oil meal and Shirashime cooking oil. Served by a canal from Yokkaichi port.

**Yokohama** — AJINOMOTO CO., INC., 30 Daikoku-cho, Tsurumi-ku. Ph. Tsurumi 5671-6. Also plant at 2964, Suzuki-cho, Kawasaki. Head office, 7, 1-chome, Takaracho, Chuo-ku, Tokyo. Offices, 30 Broad St., New York 4, and 124 S. San Pedro St., Los Angeles 12. (1) T. Domen; (4) Bunzo Watanabe; (5, 6) K. Suzuki; (7, 9) T. Ogawa. 7 screw pr. (for rapeseed only), cap. 140 t.; hexane solv., cap. 350 t. Storage cap. 800,000 bu. Soybean oil meal for own consumption. "Ajinomoto" monosodium glutamate, seasoning agent for foods; "Mieki" chemical soy sauce (liquid, MSG being partially extracted), blending material for fermented Japanese soy sauce; "Ajinomoto's" lecithin. Served by Tokaido RR.

**Yokohama** — SHOWA SANGYO CO., LTD. Plant at 24, Daikoku-cho, Tsurumi-ku, Yokohama. Head office at 5, Kanda-Kamakura-cho, Chiyoda-ku, Tokyo. Ph. Kanda (25) 7101-7115. (1) K. Matsumoto; (2, 5) K. Hirano; (3) K. Shimada; (4) W. Toda; (6, 8) H. Katagiri; (7, 9) I. Takahashi. Prepress solv., cap. 200 t.; direct solv., cap. 378 t. Storage cap. 1,300,000 bu. "Maruni" soybean oil, meal and mixed feeds. Approximate soybean operations 90%.

### NETHERLANDS

**Rotterdam** 8 — N. V. SPEELMAN'S OLIEFABRIEK, Delftweg 110. Ph. 84570. (1) Speelman. Solv., cap. 100 t. "Speelman" mixed feeds.

### NORWAY

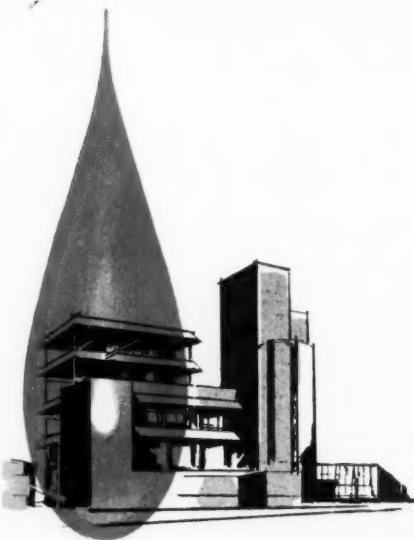
**Oslo** — A/S NORSK SOYAMELFABRIK, Fr. Nansen pl. 9. Ph. 424147-427353. Plant at Larvik. Ph. 4040. (1) Jakob Berg; (2, 5, 6, 8) Chr. Fr. Ramm; (3) Finn Westby; (4) Mrs. T. Printz; (7, 9) Arne Flood; shipping mgr., V. Pahe. Exp., cap. 124 t. Storage cap. 200,000 bu. "Prota" soybean oil meal; "Vitalia" soy flour. Served by Oslo, Drammen, Larvik RR.

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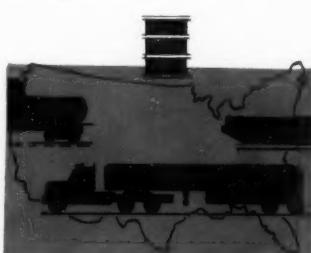
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Los Angeles—LEVER BROS. CO., 6300 E. Sheila St.

Richmond—PACIFIC VEGETABLE OIL CORP., 1145 S. 10th St.

San Francisco—BEST FOODS, div. of Corn Products Co.

San Francisco 7—PACIFIC VEGETABLE OIL CORP., 62 Townsend St. Plant at 1145 S. 10th St., Richmond. Manufacturing refiner.

Wilmington—VEGETABLE OIL PRODUCTS CO., INC., 401 Canal Ave.

## GEORGIA

Macon—PROCTER & GAMBLE MFG. CO.

Savannah—SOUTHERN COTTON OIL DIV., Wesson Oil & Snowdrift Co., Inc.

## ILLINOIS

Chicago 9—ARMOUR & CO., Union Stock Yards. Plants at Chicago, Fort Worth, Chattanooga.

Chicago—BEST FOODS, div. of Corn Products Co.

Chicago—**GLIDDEN CO.**, Durkee Famous Foods div.

Chicago—PROCTER & GAMBLE MFG. CO.

Chicago—SOUTHERN COTTON OIL DIV., Wesson Oil & Snowdrift Co. Inc.

Chicago—SPENCER KELLOGG & SONS, INC.

Chicago 1—WILSON & CO., INC., Prudential Plaza. Plants at Chattanooga and Oklahoma City.

Decatur—ARCHER-DANIELS-MIDLAND CO.

Decatur—A. E. STALEY MFG. CO.

Jacksonville—ANDERSON, CLAYTON & CO. FOODS DIV., P. O. Box 368, RFD No. 6.

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## IOWA

Belmond—GENERAL MILLS, INC.

Clinton—THE PILLSBURY CO., Wilson Bldg.

## KENTUCKY

Louisville—**GLIDDEN CO.**, Durkee Famous Foods div.

## LOUISIANA

Gretna—SOUTHERN COTTON OIL DIV., Wesson Oil & Snowdrift Co. Inc.

Opelousas—OPELOUSAS OIL REFINERY, 909 Railroad Ave. Affiliate Cotton Products Co., Inc., Opelousas.

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Mankato—HONEYMEAD PRODUCTS CO., P. O. Box 750. Capacity 600,000 lbs. daily.

Minneapolis—ARCHER-DANIELS-MIDLAND CO., 700 Investors Bldg. Plants in Mankato and Minneapolis, Minn.; Decatur, Ill.; Buffalo, N. Y.; Newark, N. J.; Los Angeles, Calif.

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## MISSOURI

St. Louis 7—THE BLANTON CO., 3400 N. Wharf.

## NEW JERSEY

Bayonne—BEST FOODS, div. of Corn Products Co.

Bayonne—COLONIAL PACKING CORP., 180-190 W. 5th St. Other plants, Italian Cook Oil Corp. and Penn Sales Co., Inc.

Bayonne—SOUTHERN COTTON OIL DIV., Wesson Oil & Snowdrift Co. Inc.

SOYBEAN BLUE BOOK

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Edgewater—LEVER BROS. CO., 101 River Rd.

Newark—ARCHER-DANIELS-MIDLAND CO.

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Buffalo—SPENCER KELLOGG & SONS, INC., 98 Delaware Ave. Plants at Bellevue, Ohio; Decatur and Chicago, Ill.; Long Beach, Calif.; Des Moines, Iowa.

New York 17—BEST FOODS, div. of Corn Products Co., 1 E. 43rd St. Plants at Bayonne, N. J.; Chicago, Ill.; Dallas, Tex.; San Francisco, Calif.

New York 10—E. F. DREW & CO., INC., 15 E. 26th St. Plant, Boonton, N. J.

New York 22—LEVER BROS. CO., 390 Park Ave. Refining plants at 101 River Road, Edgewater, N. J.; 1200 Calumet Ave., Hammond, Ind.; 6300 E. Sheila St., Los Angeles 22, Calif.

Port Ivory, Staten Island—PROCTER & GAMBLE MFG. CO.

## OHIO

Bellevue—SPENCER KELLOGG & SONS, INC.

Cleveland 14—**GLIDDEN CO.**, Durkee Famous Foods div., 900 Union Commerce Bldg. Oil refining operations conducted through Durkee Famous Foods vegetable oil products div. with plants at Chicago, Ill.; Berkeley, Calif.; Louisville, Ky.

Columbus 16—CAPITAL CITY PRODUCTS CO., 525 W. 1st Ave., P. O. Box 569.

Ivorydale, Cincinnati—PROCTER & GAMBLE CO.

## OKLAHOMA

Oklahoma City 1—WILSON & CO., INC., P. O. Box 1905.

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Memphis—SOUTHERN COTTON OIL DIV., Wesson Oil & Snowdrift Co. Inc.

## TEXAS

Abilene—WESTERN COTTONOIL CO., div. of Anderson, Clayton & Co. refinery div., P. O. Box 521.

Dallas 21—ANDERSON, CLAYTON & CO. FOODS DIV., P. O. Box 35.

Dallas—BEST FOODS, div. of Corn Products Co.

Dallas 5, Tex.—CONWAY OIL CO., 5646 Milton St., P. O. Box 8397.

Dallas—PROCTER & GAMBLE MFG. CO.

El Paso—WESTERN COTTONOIL CO., div. of Anderson, Clayton & Co. refinery div.

Fort Worth—ARMOUR & CO.

Sherman—ANDERSON, CLAYTON & CO. FOODS DIV., 1201 E. Pecan St.

## WISCONSIN

Cudahy—CUDAHY BROS. CO.

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Point Claire, Que.—PROCTER & GAMBLE CO. OF CANADA LTD.

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Des Moines 9, Iowa—SOY PRODUCTS CO., 7 7th St. "Soycup."

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Des Moines 9, Iowa—SOY PRODUCTS CO., 7 7th St. "Soywheat" and "Soyota."

Battle Creek, Mich.—KELLOGG CO. "Corn Soya."

Red Wing, Minn.—SPECIAL FOODS CO. Office, Citizens Fund Bldg. Plant, 2285 University Ave., St. Paul. V-10 protein food.

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Mt. Vernon, Ohio—LOMA LINDA FOOD CO., eastern div., P. O. Box 388. Home office Arlington, Calif.

Birdsboro, Pa.—STERNER'S SPECIAL FOODS, INC., R. 2. Aoda variety mature green soybeans packed as table beans in water, with and without salt.

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Birdsboro, Pa.—STERNER'S SPECIAL FOODS, INC., R. 2. Pack dry soybeans in tomato sauce.

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New York 17, N. Y.—BEST FOODS, div. of Corn Products Co., 1 E. 43rd St. Plants at Bayonne, N. J.; Chicago, Ill.; Dallas, Tex.; San Francisco, Calif.

New York 10, N. Y.—E. F. DREW & CO., INC., 15 E. 26th St. Plant at 416 Division St., Boonton, N. J.

Cleveland 14, Ohio—GLIDDEN CO., Durkee Famous Foods div., 900 Union Commerce Bldg. Refineries at Berkeley, Calif.; Chicago, Ill.; Louisville, Ky. "Kaola."

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Minneapolis, Minn.—GENERAL MILLS, INC., oilseeds div., 9200 Wayzata Blvd. Sales Mgr., W. E. Flumerfelt.

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New York 7, N. Y.—ROSS & ROWE, INC., 50 Church St. Also Wrigley Bldg., Chicago 11, Ill.

Syracuse, N. Y.—VEGETABLE PRODUCTS CO., 407 Hickory St., P. O. Box 1204. Lecithin Jel and capsules.

Woodside 77, L. I., N. Y.—AMERICAN LECITHIN CO., INC., 57-01 32nd Ave. Soybean lecithins and derivatives; lecithinated flours. Dietary supplements based on lecithin.

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Thomasville, Ga.—ROSE-KIST FOODS, INC., 330 Smith Ave.

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Chicago, Ill.—BEATRICE FOODS CO., 120 S. LaSalle St.

Chicago 90, Ill.—KRAFT FOODS DIV. of National Dairy Products Corp., 500 Peshtigo Ct.

Chicago 9, Ill.—SWIFT & CO., Union Stock Yards.

Chicago 1, Ill.—WILSON & CO., INC., Prudential Plaza.

Evanston, Ill.—ALL-FRESH FOODS, INC., 2156 Green Bay Rd.

New Orleans, La.—BLUE PLATE FOODS, INC., Box 13041, Broadmoor Sta.

Baltimore 29, Md.—J. H. FILBERT, INC., 3701 Southwestern Blvd.

Detroit 38, Mich.—SHEDD-BARTUSH FOODS, INC., 1440 Dexter Blvd. Plants also at Louisville 17, Ky.; Elgin, Ill.; Dallas 7, Tex.; Greenville, S. C.; Cincinnati 2, Ohio; San Francisco 11, Calif.; Omaha 2, Nebr.

Carthage, Mo.—CARTHAGE CREAMERY CO., 545 N. Main St.

Kansas City 11, Mo.—KENT PRODUCTS INC., Wornall Rd. at 42nd Terrace, P. O. Box 5857.

St. Louis 7, Mo.—THE BLANTON CO., 3400 N. Wharf.

Omaha 7, Nebr.—CUDAHY PACKING CO., Union Stock Yards.

New York 17, N. Y.—BEST FOODS, div. of Corn Products Co., 1 E. 43rd St.

New York 10, N. Y.—E. F. DREW & CO., INC., 15 E. 26th St.

New York 22, N. Y.—LEVER BROS. CO., 390 Park Ave.

New York 22, N. Y.—STANDARD BRANDS, INC., 625 Madison Ave.

Cincinnati 14, Ohio—MERCHANTS CREAMERY CO. INC., 536 Livingston St.

Cincinnati 17, Ohio—THE MIAMI MARGARINE CO., 5226 Vine St.

Columbus 8, Ohio—CAPITAL CITY PRODUCTS CO., 525 W. 1st Ave.

Salem, Ore.—DUTCH MAID FOOD PRODUCTS CO., INC., 3371 Portland Road.

Dallas 5, Tex.—CONWAY OIL CO., 5646 Milton St., P. O. Box 8397.

Dallas 21, Tex.—ANDERSON, CLAYTON & CO. FOODS DIV., P. O. Box 35.

Fort Worth, Tex.—COLLIER INDUSTRIES, 416-500 E. 9th St.

Toronto, Ont., Canada—LEVER BROS. LTD., 299 Eastern Ave.

## SOYBEAN PROCESSORS

★ 50% PROTEIN SOYBEAN OIL MEAL

★ 44% PROTEIN SOYBEAN OIL MEAL

★ TOASTED SOYBEAN MILL FEED

★ Refined SOYBEAN OILS AND LECITHIN

★ TOASTED SOY PROTEINS

OILSEEDS DIVISION

Minneapolis, Minnesota

Plants Belmond, Ia. and Rossford, Ohio.



## MEAT SUBSTITUTES

**Champaign, Ill.**—DIETARY FOOD STORE, 504 N. Prairie, Handler.

**Chicago 11, Ill.**—WM. H. LEAHY CO., INC., 577 E. Illinois St. Wholesale dist.

**Olmsted Falls, Ohio**—NATURAL FOODS INC. Handler.

**Birdsboro, Pa.**—STERNER'S SPECIAL FOODS, INC., R. 2. Manufacturer of meat substitutes.

## PROTEINS

**Galesburg, Ill.**—GUNTHER PRODUCTS, INC., 600 E. Main St. Vegetable proteins.

**Worthington, Ohio**—WORTHINGTON FOODS, INC., 900 Proprietors Rd. Processing and packing vegetarian protein foods.

## PUDDING POWDERS

**Brockville, Ont., Canada**—MACDOWELL BROS., P. O. Box 141. Also at Ogdensburg, N. Y. Dietary foods.

## SALAD AND COOKING OILS, SHORTENING

**Wilmington, Calif.**—VEGETABLE OIL PRODUCTS CO., INC., 401 Canal Ave. Shortening, salad and cooking oil, flaked oils.

**Savannah, Ga.**—SOUTHERN COTTON OIL DIV., Wesson Oil & Snowdrift Co. Inc. Shortening.

**Chicago 9, Ill.**—ARMOUR & CO., Union Stock Yards. Shortening and salad oils; hydrogenated fats and oils.

**Chicago, Ill.**—SOUTHERN COTTON OIL DIV., Wesson Oil & Snowdrift Co. Inc. Shortening.

**Decatur, Ill.**—A. E. STALEY MFG. CO. Salad and cooking oil. "Edsoy."

**Jacksonville, Ill.**—ANDERSON, CLAYTON & CO. FOODS DIV., P. O. Box 368, R. 6.

**Gretna, La.**—SOUTHERN COTTON OIL DIV., Wesson Oil & Snowdrift Co. Inc. Shortening.

**Opelousas, La.**—OPELOUSAS OIL REFINERY, 909 Railroad Ave. Affiliate of Cotton Products Co., Inc. Also operates Opelousas Oil Mill. Vegetable oil shortening and soybean salad oil.

**Baltimore 29, Md.**—J. H. FILBERT, INC., 3701 Southwestern Blvd. Also Mead Rd., P. O. Box 231, Macon, Ga. Mayonnaise.

**Baltimore 3, Md.**—WM. SCHLUDERBERG-T. J. KURDLE CO., 3800-4000 E. Baltimore St., P. O. Box 476. Shortening, cooking and salad oil.

**Detroit 38, Mich.**—SHEDD-BARTUSH FOODS, INC., 14401 Dexter Blvd. Also plants at Louisville 17, Ky.; Elgin, Ill.; Dallas 7, Tex.; Greenville, S. C.; Cincinnati 2, Ohio; San Francisco 11, Calif.; Omaha 2, Nebr. Shedd's old style dressing, Shedd's salad products.

**Mankato, Minn.**—HONEYMEAD PRODUCTS CO. "Savory Soy" salad oil.

**Minneapolis 2, Minn.**—ARCHER-DANIELS-MID-LAND CO., 700 Investors Bldg. "Archer C & S" cooking and salad oil.

**St. Louis 7, Mo.**—THE BLANTON CO., 3400 N. Wharf. Shortening, salad and cooking oils. Hydrogenated fats and oils.

**Bayonne, N. J.**—COLONIAL PACKING CORP., 180-190 W. 5th St. Other plants Italian Cook Oil Corp. and Penn Sales Co., Inc. Mayonnaise, salad dressing and French dressing.

**Bayonne, N. J.**—SOUTHERN COTTON OIL DIV., Wesson Oil & Snowdrift Co. Inc. Shortening.

**Buffalo, N. Y.**—SPENCER KELLOGG & SONS, INC., 98 Delaware Ave. "Spensoy" salad oil.  
**New York 17, N. Y.**—BEST FOODS, div. of Corn Products Co., 1 E. 43rd St. Plants at Bayonne, N. J.; Chicago, Ill.; Dallas, Tex.; and San Francisco, Calif. "VEO" shortening.

**New York 10, N. Y.**—E. F. DREW & CO., INC., 15 E. 26th St. Shortening and salad oil. Plant at Boonton, N. J.

**New York 22, N. Y.**—LEVER BROS. CO., 390 Park Ave. Plants at 101 River Rd., Edgewater, N. J.; 1200 Calumet Ave., Hammond, Ind.; 6300 E. Sheila St., Los Angeles 22, Calif. Vegetable shortening.

**Cincinnati 17, Ohio**—THE MIAMI MARGARINE CO., 5226 Vine St. Salad products.

**Cincinnati, Ohio**—PROCTER & GAMBLE DISTRIBUTING CO., general offices. Shortening.

**Cleveland 14, Ohio**—GLIDDEN CO., Durkee Famous Foods div. 900 Union Commerce Bldg. Plants at Berkeley 10, Calif.; Chicago 47, Ill.; Louisville 1, Ky. Standard and hydrogenated shortenings, cooking and salad oils.

**Columbus 8, Ohio**—CAPITAL CITY PRODUCTS CO., 525 W. 1st Ave. Shortening.

**Oklahoma City 1, Okla.**—WILSON & CO., INC., P. O. Box 1905. Standard and hydrogenated shortening, cooking and salad oils.

**Chattanooga, Tenn.**—LOOKOUT OIL & REFINING CO., div. of Armour & Co., 4608 Kirkland Ave. Shortenings, cooking and salad oils, hydrogenated fats and oils.

**Chattanooga 1, Tenn.**—WILSON & CO., INC., P. O. Box 1230. Standard and hydrogenated shortening, cooking and salad oils.

**Memphis 8, Tenn.**—THE CUDAHY PACKING CO., refinery, 2800 Chelsea Ave. Shortenings, salad oils, margarines.

**Memphis, Tenn.**—HUMKO CO., 1702 N. Thomas St. Hydrogenated vegetable shortening, salad oil.

**Memphis, Tenn.**—SOUTHERN COTTON OIL DIV., Wesson Oil & Snowdrift Co., Inc. Shortening.

**Dallas 21, Tex.**—ANDERSON, CLAYTON & CO. FOODS DIV., P. O. Box 35.

**Dallas 5, Tex.**—CONWAY OIL CO., 5646 Milton St., P. O. Box 8397.

**Ft. Worth, Tex.**—ARMOUR & CO. Cooking and salad oils, shortening, hydrogenated fats and oils.

**Cudahy, Wis.**—CUDAHY BROS. CO. Shortening.

**Toronto 9, Ont.**—CANADA PACKERS LTD. Plants located at Vancouver, Edmonton, Moose Jaw, Winnipeg, Toronto, Peterborough, Hull, Montreal, Charlottetown, St. John.

**Toronto, Ont., Canada**—LEVER BROS. LTD., 299 Eastern Ave. Shortening.

## SAUSAGE BINDERS

**Chicago 12, Ill.**—CUSTOM FOOD PRODUCTS, INC., 701-709 N. Western Ave. Sausage and loaf binders for sausage trade. Hamburger and loaf seasonings and binders for institutional trade.

**Chicago 39, Ill.**—CENTRAL SOYA CO., INC., chemurgy div., 1825 N. Laramie Ave. Meat binders.

**Decatur, Ill.**—SPENCER KELLOGG & SONS, INC. Binders for sausage making and for canned dog food—"Special X" low-fat soy flour, "Meatone" low-fat soy grits, "Kel-Soysoy" defatted soy flour and grits.

**Decatur, Ill.**—A. E. STALEY MFG. CO. Meat packers' soy flour and coarse, medium and fine soy grits. Toasted and untoasted.

## SEASONINGS

**Chicago 12, Ill.**—CUSTOM FOOD PRODUCTS, INC., 701 N. Western Ave. Manufacturer of seasonings.

**Bethlehem, Pa.**—**GLIDDEN CO.**, Durkee Famous Foods div., 1001 8th Ave. Seasonings, condiments and coconut.

**Birdsboro, Pa.**—STERNER'S SPECIAL FOODS, INC., R. 2. Manufacturer of seasonings employing soybeans as an ingredient.

## SOUPS

**Chicago 12, Ill.**—CUSTOM FOOD PRODUCTS, INC., 701 N. Western Ave. Manufactures complete line of soup bases.

## SOYBEAN OIL

**Decatur, Ill.**—**A. E. STALEY MFG. CO.** Edible oils.

**Mankato, Minn.**—**HONEYMEAD PRODUCTS CO.** Minneapolis 2, Minn.—**ARCHER-DANIELS-MID-LAND CO.**, 700 Investors Bldg. Edible oil in gallon containers.

**St. Louis 7, Mo.**—**THE BLANTON CO.**, 3400 N. Wharf.

**Bayonne, N. J.**—**COLONIAL PACKING CORP.**, 180-190 W. 5th St. Other plants, Italian Cook Oil Corp. and Pem Sales Co., Inc. Edible oils.

**New York 17, N. Y.**—**BEST FOODS**, div. of Corn Products Co., 1 E. 43rd St. Plants at Bayonne, N. J.; Chicago, Ill.; Dallas, Tex.; San Francisco, Calif.

**New York 10, N. Y.**—**E. F. DREW & CO., INC.**, 15 E. 26th St. Plant at Boonton, N. J.

**Syracuse, N. Y.**—**VEGETABLE PRODUCTS CO.**, 407 Hickory St., P. O. Box 1204.

**Cincinnati, Ohio**—**PROCTER & GAMBLE DISTRIBUTING CO.**, P. O. Box 599. Edible oils.

**Cleveland 14, Ohio**—**GLIDDEN CO.**, Durkee Famous Foods div., 900 Union Commerce Bldg. Edible oil refineries at Berkeley 10, Calif.; Louisville 1, Ky.; Chicago 47, Ill.

**Columbus 8, Ohio**—**CAPITAL CITY PRODUCTS CO.**, 525 W. 1st Ave. Edible Oil.

## SOYBEANS FOR COOKING AND SPROUTING

**Melrose Park, Ill.**—**FEARN SOYA FOODS**, 1206 N. 31st Ave. "Dr. Fearn's" organically grown soybeans.

**Hudson, Iowa**—**STRAYER SEED FARMS, INC.**

## SOY BUTTER

**Riverside, Calif.**—**TOWN FOOD CO.**, 4664 Vine St. "Town" soy lecithin spread, an unsaturated fatty acid spread for bread.

**Detroit 38, Mich.**—**SHEDD-BARTUSH FOODS, INC.**, 14401 Dexter Blvd. Plants also at Louisville 17, Ky.; Elgin, Ill.; Dallas 7, Tex.; Greenville, S. C.; Cincinnati 2, Ohio; San Francisco 11, Calif.; Omaha 2, Nebr. Manufacturers "Willow Run" soy spread.

## SOY CHEESE

**Mt. Vernon, Ohio**—**LOMA LINDA FOOD CO.**, eastern div., P. O. Box 388.

**Madison, Tenn.**—**MADISON FOODS**, Madison College. "Chez-O-Soy."

# Trading In Futures?

Our Commodity Market Letter is available upon request. It gives a daily report of market activities which many traders find useful. No obligation; just send your name and address to

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New York Produce Exchange  
Winnipeg Grain Exchange

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## SOY FLOUR, FLAKES AND GRITS

**Alhambra, Calif.**—EL MOLINO MILLS, 3060 W. Valley Blvd. Grits, meal, flour, powder.

**Arlington, Calif.**—LOMA LINDA FOOD CO. Packer and distributor of soy flour.

**Chicago 39, Ill.**—CENTRAL SOYA CO., INC., chemurgy div., 1825 N. Laramie Ave. Full-fat, low-fat and de-fatted soy flours, flakes and grits.

**Chicago 6, Ill.**—ALFRED W. FRITZ, 549 W. Randolph St. Handlers of soybean brew flakes.

**Chicago, Ill.**—GRIFFITH LABORATORIES, 1415 W. 37th St. Flour. Grits.

**Decatur, Ill.**—SPENCER KELLOGG & SONS, INC. Full-fat, low-fat and defatted flour; low-fat and defatted grits.

**Decatur, Ill.**—A. E. STALEY MFG. CO. Extracted hi-fat and low-fat flour, 200 mesh flour, 5% and 15% lecithinated flour. Coarse, medium, fine grits. Toasted and untoasted flakes.

**Melrose Park, Ill.**—FEARN SOYA FOODS, 1206 N. 31st Ave. "Dr. Fearn's" unbleached wheat flour and soya; soy grits; low-fat soya powder.

**Des Moines 9, Iowa**—SOY PRODUCTS CO., 7 7th St. Soy flour, "Vitasoy."

**Minneapolis 2, Minn.**—ARCHER-DANIELS-MID-LAND CO., 700 Investors Bldg. Soy flour, soy grits, "ADM" soybean brew flakes.

**Minneapolis, Minn.**—GENERAL MILLS, INC., oilseeds div., 9200 Wayzata Blvd. Sales mgr., R. M. Hamilton.

**Syracuse, N. Y.**—VEGETABLE PRODUCTS CO., 407 Hickory St., P. O. Box 1204. "Vi-Vi-Ta" soy flour, hi-fat.

**Seima, N. C.**—SELMA SOYBEAN CORP., P. O. Box 488. "Selsoy" soy flour.

**Milwaukee 2, Wis.**—REICHEL-KORFMANN CO., 221 E. Clybourn St. Soybean brew flakes.

**Brockville, Ont., Canada**—MacDOWELL BROS., P. O. Box 141. Also at Ogdensburg, N. Y. Soybean flour specially processed for diabetics.

**Toronto, Ont., Canada**—VICTORY SOYA MILLS LTD., 285 Fleet St. E. "Indosoy," industrial soy flour; "Soywhite," fat-free flour.

## SOY FLOUR MIXES

**Melrose Park, Ill.**—FEARN SOYA FOODS, 1206 N. 31st Ave. "Dr. Fearn's Soy-O" wholewheat pancake flour; also unbleached white flour and soy pancake flour; corn meal and muffin mix with soya.

**Warsaw, Ind.**—GOLDEN MIX, INC. "Golden Mix" for griddle cakes and waffles; "Frying Magic" for breading and frying.

**Red Wing, Minn.**—SPECIAL FOODS CO. Office, Citizens Fund Bldg. Plant, 2285 University Ave., St. Paul. V-10 protein bread mix.

## SOY MILK

**Champaign, Ill.**—DIETARY FOOD STORE, 504 N. Prairie. Handler.

**Chicago, Ill.**—CHICAGO DIETETIC SUPPLY HOUSE, 1750 W. Van Buren St. Canned soy milk.

**Melrose Park, Ill.**—FEARN SOYA FOODS, 1206 N. 31st Ave. "Dr. Fearn's" pure soy powder for making soy milk.

**Syracuse, N. Y.**—VEGETABLE PRODUCTS CO., 407 Hickory St., P. O. Box 1204.

**Mt. Vernon, Ohio**—LOMA LINDA FOOD CO., eastern div., P. O. Box 388. Powdered and liquid soy milk.

**Olmsted Falls, Ohio**—NATURAL FOODS INC. Dried and liquid.

**Worthington, Ohio**—WORTHINGTON FOODS, INC., 900 Proprietors Rd. Processing and packing powdered soy milk.

## SOY SAUCE

**Arlington, Calif.**—LOMA LINDA FOOD CO.

**Los Angeles 54, Calif.**—ORIENTAL FOODS, INC., P. O. Box 2121.

**Chicago, Ill.**—GREAT CHINA FOOD PRODUCTS CO., 2520-58 S. State St.

**Decatur, Ill.**—A. E. STALEY MFG. CO. Soybean hydrolyzate for flavoring.

**Columbia City, Ind.**—ORIENTAL SHOWYOU CO., INC.

**Archbold, Ohio**—LACHOY FOOD PRODUCTS, div. Beatrice Foods Co.

## SPROUTS

**Columbia City, Ind.**—ORIENTAL SHOWYOU CO., INC. Mung bean sprouts.

## VITAMINS

**New York 10, N. Y.**—E. F. DREW & CO., INC., 15 E. 26th St. Plant at Boonton, N. J.

## WHIPPING AGENTS

**Chicago 39, Ill.**—CENTRAL SOYA CO., INC., chemurgy div., 1825 N. Laramie Ave.

**Galesburg, Ill.**—GUNTHNER PRODUCTS INC., 600 E. Main St. Manufactures vegetable proteins and derivatives.

**New Brunswick, N. J.**—W. A. CLEARY CORP. Also Skokie, Ill.; Belleville, Ont.

## EXCELLENT PLANT SITES

In The Heart Of The Soybean Processing Area

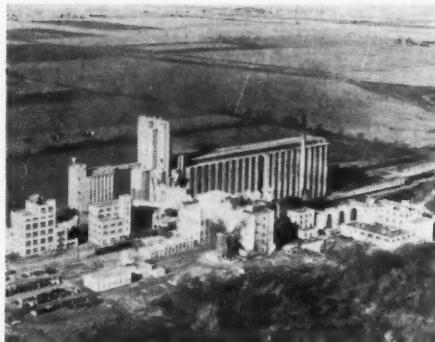
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Industrial Development Department

## NICKEL PLATE ROAD

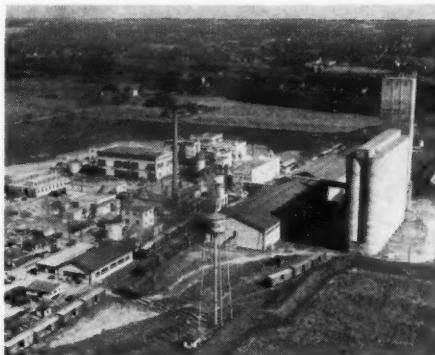
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Decatur, Illinois

## Some ADM



Evendale, Ohio



Mankato, Minnesota

**ADM PRODUCTS:** Linseed, Soybean and Marine Oils, Paint Vehicles, Synthetic and Natural Resins, Fatty Acids and Alcohols, Vinyl Plasticizers, Hydrogenated Glycerides, Sperm Oil, Foundry Binders, Bentonite, Industrial Cereals, Vegetable Proteins, Wheat Flour, Dehydrated Alfalfa, Livestock and Poultry Feeds, Olefins and Hydrocarbons, Fatty Nitrogen Chemicals, Crosby Cruisers.

The soybean is a coy bean,  
whose wondrous molecules  
are smart as little foxes,  
yet tough as mountain mules.  
To make a better product,  
just select a few of them  
and hitch them all together . . .  
with the help of ADM.

## products from soybeans

- Archer S (salad oil)
- Soybean oil
- Archer 44% soybean oil meal, pea-size, pellets, flakes
- Archer 50% low fiber soybean oil meal
- Adpro isolated soy proteins
- Soybean brew flakes
- R-Lecin (soybean lecithin)
- Soy flour
- Bakers Nutrisoy
- Daniels' Supreme
- Kaysoy
- Nutriwhip
- Packers Granular
- Soya fatty acids
- Admex vinyl plasticizers
- Archer Booster feeds
- Aroplaz alkyd resins

**Archer-  
Daniels-  
Midland**

735 Investors Building,  
Minneapolis 2, Minnesota



# MANUFACTURERS OF INDUSTRIAL PRODUCTS EMPLOYING SOYBEANS

## CAULKING COMPOUNDS, FLOOR TILE

New York 16, N. Y.—JOHNS-MANVILLE, 22 E. 40th St. Caulking compounds. Floor tile.

## COATED PAPERS, LEATHER DRESSING

Chicago 39, Ill.—CENTRAL SOYA CO., INC., chemurgy div., 1825 N. Laramie Ave. "Alpha" protein for paper coating, regular and high solids, used both off and on the paper machine; size press and calendar sizing; floor covering backing paints; leather finishes; latex dispersions; printing inks; textile sizing.

Decatur, Ill.—SPENCER KELLOGG & SONS, INC. "Kelkote" pulverized commercial soy protein for protective coatings, linoleum, water emulsion paint finishes. Leather dressing.

Ervendale, Ohio — ARCHER-DANIELS-MIDLAND CO., 2795 Sharon Rd. Isolated protein for use in paper coatings and board coatings.

## FIRE-FIGHTING FOAM

Chicago 39, Ill.—CENTRAL SOYA CO., INC., chemurgy div., 1825 N. Laramie Ave. Soybean proteins for use in the manufacture of fire-fighting liquors.

## GLUES, PLYWOOD ADHESIVES

Chicago 39, Ill.—CENTRAL SOYA CO., INC., chemurgy div., 1825 N. Laramie Ave. Soybean flour used in the manufacture of plywood adhesives.

Chicago 16, Ill.—PAISLEY PRODUCTS, INC., 1770 Canalport Ave. Glues, adhesives.

Decatur, Ill.—SPENCER KELLOGG & SONS, INC. "Kelkote" pulverized commercial soy protein and "Soytex" adhesive soy flour. Defatted soy flakes.

Decatur, Ill.—A. E. STALEY MFG. CO. Soy products for use in manufacture of plywood adhesives.

Springfield, Mass.—MONSANTO CHEMICAL CO., plastics div. "Lauxein" soybean glue. "Lauxit," a pulverized soy protein.

Minneapolis 2, Minn.—ARCHER-DANIELS-MIDLAND CO., 700 Investors Bldg. "Kaysoy" industrial soy flours.

Seattle 4, Wash.—AMERICAN-MARIETTA CO., 3400 13th Ave. S.W. Adhesives for plywood, wood-working, and allied industries.

## INSECTICIDES

Chicago 39, Ill.—CENTRAL SOYA CO., INC., chemurgy div., 1825 N. Laramie Ave. "Spraysoy" spreader and sticker for various sprays, and emulsifier for oil emulsion sprays.

Decatur, Ill.—SPENCER KELLOGG & SONS, INC. "Special X" low-fat soy flour, defatted soy flour.

## LAMINATING

Chicago 39, Ill.—CENTRAL SOYA CO., INC., chemurgy div., 1825 N. Laramie Ave. Soybean proteins for paper and paper-board laminating.

Minneapolis 2, Minn.—ARCHER-DANIELS-MIDLAND CO., 700 Investors Bldg. Soybean proteins for paper and paper board laminating.

## LECITHIN

Decatur, Ill.—A. E. STALEY MFG. CO. Soy lecithin, bleached and unbleached. Fluid and regular grades. Water dispersible and granular or powdered grades available.

## OILCLOTH AND COATED FABRICS

Columbus 16, Ohio—COLUMBUS COATED FABRICS CORP., 7th and Grant Aves. Oilcloth, plastic sheeting, wall coverings, upholstery materials and shade cloth.

## PAINTS AND VARNISHES

Wilmington, Del.—E. I. du PONT de NEMOURS & CO., INC. Soybean oil in paints, alkyd resin varnishes.

Chicago 39, Ill.—CENTRAL SOYA CO., INC., chemurgy div., 1825 N. Laramie Ave. "Alpha" protein as an emulsifying and stabilizing agent for latex, resin and oil-in-water emulsion paints.

Chicago 11, Ill.—ILLINOIS FARM SUPPLY CO., 100 E. Ohio St. "Soyoil" paints and varnishes.

Decatur, Ill.—SPENCER KELLOGG & SONS, INC. "Kelkote" pulverized commercial soy protein for protective coatings.

Louisville 8, Ky.—JONES-DABNEY CO., Station E, div. of Devoe & Reynolds Co. Varnishes.

St. Louis 7, Mo.—P. D. GEORGE CO., 5200 N. 2nd St. Exterior building paints, industrial paints, interior paints, varnishes.

St. Louis, Mo.—MONARCH PAINT CO., div. of Schulte Paint & Lacquer Mfg. Co., 639 E. Holly Ave. "Plastic Plaster" (interior) and "Plasti-Tex" (exterior) soy oil paints.

New York 17, N. Y.—HEYDEN NEWPORT CHEMICAL CORP., 342 Madison Ave. "Pentek" (Pentaerythritol, Technical), "Dipentek" (Dipentaerythritol, Technical), "Tripentek" (Tripen-taerythritol, Technical), "Monopentek" (Monopen-taerythritol) and TME (Trimethylolethane) — polyols used with soybean oil and soy fatty acids in the manufacture of synthetic drying oils, alkyd resins and varnishes.

Cleveland, Ohio — SHERWIN-WILLIAMS CO. Paints, varnishes, enamels. Paint chemicals, pigments and dry colors.

Ervendale, Ohio — ARCHER-DANIELS-MIDLAND CO., 2795 Sharon Rd. Isolated protein for use in water paints and inks including latex and resins emulsion types.

## PAINTS AND VARNISHES (Continued)

**Pittsburgh 22, Pa.**—PITTSBURGH PLATE GLASS CO., One Gateway Center. Paints, varnishes and lacquers.

**Garland, Tex.**—DESOTO PAINT & VARNISH CO., Forest Lane and Shiloh Rd., P. O. Box 186. Consumer and industrial enamel finishes.

## PAPER SIZINGS, WALL-PAPER AND WALLBOARD COATINGS

**Aurora, Ill.**—GLENN DAVIDSON, P. O. Box 510. "Soyize" (technical soy flour) and "Soyein" (isolated soy protein) for use as industrial adhesives.

**Chicago 39, Ill.**—CENTRAL SOYA CO., INC., chemurgy div., 1825 N. Laramie Ave. "Alpha" protein for "Pro-size" sizing of paper; ground and top coats for wallpaper; insulation board coatings.

**Decatur, Ill.**—SPENCER KELLOGG & SONS, INC. Paper sizings, wallpaper and wallboard coatings.

**Kankakee, Ill.**—GENERAL MILLS, INC., chemical div., S. Kensington Rd. Versamid resin for coating paper in manufacture of containers.

**Evendale, Ohio** — ARCHER-DANIELS-MIDLAND CO., 2795 Sharon Rd. Isolated protein for use in sizing and as adhesive.

## RESINS

**Chicago 39, Ill.**—CENTRAL SOYA CO., INC., chemurgy div., 1825 N. Laramie Ave. "Prosoy-G" extender for resin adhesives.

**Chicago 16, Ill.**—PAISLEY PRODUCTS, INC., 1770 Canalport Ave.

**Kankakee, Ill.**—GENERAL MILLS, INC., chemical div., S. Kensington Rd. Versamid resin for coating papers and delicately machined metal parts.

**Louisville 8, Ky.**—JONES-DABNEY CO., Station E, div. of Devoe & Reynolds Co. Synthetic resins.

**White Plains, N. Y.**—REICHHOLD CHEMICALS, INC. Alkyd resins.

## SOAPS

**Bayonne, N. J.**—COLONIAL PACKING CORP., 180-190 W. 5th St. Other plants Italian Cook Oil Corp. and Pem Sales Co., Inc. Soapstock.

**New York 10, N. Y.**—E. F. DREW & CO., INC., 15 E. 26th St. Plant at Boonton, N. J.

**Cincinnati 2, Ohio**—THE PROCTER & GAMBLE CO., P. O. Box 599.

**Toronto, Ont.**—CANADA PACKERS LTD., Industrial Soap div., 525 Front St. E.

## SOYBEAN FATTY ACIDS

**Harrison, N. J.**—WOBURN CHEMICAL CORP., 1200 Harrison Ave. Affiliate of Woburn De-greasing Co., Woburn, Mass. Soybean fatty acids, also hydrogenated fatty acids and glycerides, used primarily in paint, varnish and soap industries.

**New York 10, N. Y.**—E. F. DREW & CO., INC., 15 E. 26th St. Plant at Boonton, N. J. Soybean fatty acids, glycerine and detergents.

**New York 17, N. Y.**—A. GROSS & CO., 295 Madison Ave. Plant at 652 Doremus Ave., Newark, N. J.

**New York 4, N. Y.**—SOUTHERN COTTON OIL DIV., Wesson Oil & Snowdrift Co. Inc., 11 Broadway. Plant at 4421 W. 31st St., Chicago 23. Main office 210 Baronne St., New Orleans 12. Soapstocks, fatty acids.

**Cincinnati 2, Ohio**—EMERY INDUSTRIES, INC., Crew Tower. Manufactures: "Emery 610" distilled soya-type fatty acid, "Emery 614" distilled soya-type fatty acid—alkyd grade, "Emery 618" distilled soya-type fatty acid—super alkyd grade, and "Emersol 9315" double distilled liquid fatty acid. Also the "Emersol" process for separation of liquid and solid components of soya fatty acids by selective solvent crystallization.

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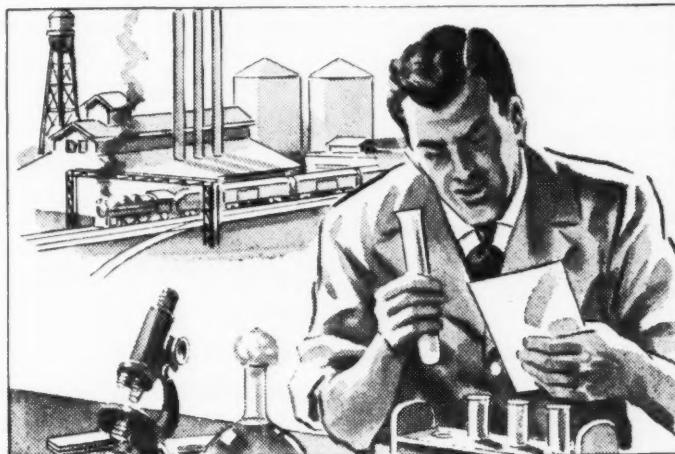
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**Sikeston, Mo.**—R. CLINTON CONSTRUCTION CO., Hwy. 60 West. Design and construction of soybean elevators.

**Omaha, Nebr.**—TILLOTSON CONTRACTING CO., Box 613. Mill and elevator construction.

**Haddonfield, N. J.**—STOCKDALE ENGINEERING CO., P. O. Box 144. Comprehensive oil mill, engineering service including solvent extraction, milling, conveying, storage.

**Buffalo 2, N. Y.**—A. E. BAXTER ENGINEERING CO., 1315 Genesee Bldg. Consulting and designing for mills, elevators and feed mills.

**New York 51, N. Y.**—HOLLY PNEUMATIC SYSTEMS, INC., 215 E. 149th St. Layout and cost estimates, soybean and soybean oil meal handling systems.

**Raleigh, N. C.**—AEROGLIDE CORP., 510 Glenwood Ave., Box 1839. Complete materials handling engineering, fabrication, and installation. Engineering for additional storage, driers, elevators, conveyors.

**Columbus, Ohio**—BARNEBEY-CHEENEY CO., Casady at 8th. Laboratory and engineering service relating to the recovery of solvent vapors and to the reactivation of activated carbon.

**Piqua, Ohio**—HARTZELL PROPELLER FAN CO., P. O. Box 909. Design and engineering service for drying and conditioning soybeans.

**Mertztown, Pa.**—ATLAS MINERAL PRODUCTS CO. Engineering service associated with problems involving corrosion or solvent resistance in the soybean industry.

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**Memphis 1, Tenn.**—RIECHMAN-CROSBY CO., 223-229 S. Front St. Complete engineering of grain storage, handling, drying, aerating facilities.

**Hamburg-Wandsbek, Germany**—ZIV-ING. WILHELM DEPMER, Kielmannseggstr. 86. Consulting engineer.



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## EXPORT ELEVATORS

**Mobile, Ala.** — ALABAMA STATE DOCKS DEPT., Public Grain Elevator, P. O. Box 721. Port Commissioners, Port of New Orleans.

**New Orleans, La.** — NEW ORLEANS PUBLIC ELEVATOR, 2 Canal St. Operated by Board of Port Commissioners, Port of New Orleans.

**Galveston, Tex.** — SUNSET ELEVATOR. Operated by Continental Grain Co.

**Houston, Tex.** — HOUSTON PUBLIC ELEVATOR. Operated by Port of Houston.

**Houston, Tex.** — MANCHESTER ELEVATOR. Operated by Continental Grain Co.

## EXPORTERS, IMPORTERS

**San Francisco 7, Calif.** — PACIFIC VEGETABLE OIL CORP., 62 Townsend St. Processed soybean oils and soybean oil meal.

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**New Orleans 3, La.** — W. L. RICHESON & SONS, INC., 624 Gravier St. Ocean freight broker and forwarding agent. Contracting ocean space; stock keeping at elevator; complete ocean documentation; import and export forwarding; weighing, sampling; reconditioning; arranging for sacking of bulk beans at elevator.

**Minneapolis, Minn.** — CARGILL, INC., 200 Grain Exchange Bldg. Handles soybeans, soybean oil meal and soybean oil for export.

**Kansas City, Mo.** — MIDWESTERN GRAIN CO., 1052 Board of Trade Bldg. Export and domestic grain and soybean merchandising.

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**New York 4, N. Y.** — GARNAC GRAIN CO., INC., 32 Broadway. Exports grains, soybeans, soybean meal and soybean oil.

**New York 4, N. Y.** — ISBRANDTSEN CO. INC., grain division, 26 Broadway. Exporter of soybeans.

**New York 22, N. Y.** — C. ITOH & CO. (AMERICA) INC., 425 Park Ave. Affiliate of C. Itoh & Co., Ltd., Osaka, Japan.

**New York 4, N. Y.** — METROPOLITAN VEGETABLE OIL CO., INC., 26 Broadway. Soybean and cottonseed oil; all vegetable oils and animal fats.

**Morehead City, N. C.** — BULK STORAGE CO., INC., State Docks, P. O. Box 322. Handling, storing, ship loading import/export fats and oils.

**Philadelphia 6, Pa.** — P. R. MARKLEY, INC., Lafayette Bldg. Domestic and export merchandiser of soybeans and soybean oil meal.

**Galena Park, Tex.** — HESS TERMINAL CORP., P. O. Box 52. Also at New Orleans, La. Storage and drumming of soybean oil.

**Paris 10, France** — J. E. WITTERIED, 42 rue de L'Échiquier. Cable address Witeried, Paris; phone Taibout 54-44. Margarine, chocolate, paint, varnish, lecithin and soybean oil. Also supplier to biscuit, baking and candy makers.

## FARM MANAGEMENT

**St. Louis 8, Mo.** — DOANE AGRICULTURAL SERVICE, INC., Box S, 5142 Delmar Blvd. Farm and ranch management. Special operating programs prepared for farm owners or operators. Also mail advisory service.

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**Chicago 4, Ill.** — WILLIAM H. BANKS DIVISION American Express Field Warehousing Corp., 209 S. LaSalle St.

**New Orleans, La.** — DOUGLAS-GUARDIAN WAREHOUSE CORP., 118 N. Front St. Affiliate of Douglas Public Service Corp.

**Minneapolis, Minn.** — AMERICAN EXPRESS FIELD WAREHOUSING CORP., 910 Baker Bldg. Affiliate of American Express Co.

**St. Paul, Minn.** — ST. PAUL TERMINAL WAREHOUSE CO. Also offices in Des Moines, Chicago, Milwaukee, Kansas City, Minneapolis, Omaha, Buffalo, Jacksonville, Los Angeles, New Orleans, San Francisco, Tampa, Detroit, New York, Boston, Philadelphia, Pittsburgh, Atlanta, Memphis, Charlotte, Albany, Ga., and Dallas.

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**Memphis, Tenn.** — NEW YORK TERMINAL WAREHOUSE CO., INC., Edway Bldg. Main office 25 S. William St., New York 4. Also offices in Albany, Ga., Atlanta, Boston, Buffalo, Charlotte, N. C., Chicago, Dallas, Des Moines, Detroit, Jacksonville, Kansas City, Los Angeles, Milwaukee, Minneapolis, Omaha, Philadelphia, Pittsburgh, San Francisco, Seattle, St. Paul and Tampa.

## FUTURES MARKETS

**Chicago, Ill.** — CHICAGO BOARD OF TRADE, Board of Trade Bldg. Soybean, crude soybean oil and soybean oil meal futures. Pres., R. C. Liebenow.

**New York, N. Y.** — NEW YORK PRODUCE EXCHANGE. Soybean oil, cottonseed oil and tallow futures. Exec. secy., C. R. Berg.

**Memphis, Tenn.** — MEMPHIS BOARD OF TRADE CLEARING ASSN. Soybean oil meal and cottonseed meal futures. Exec. vice pres., A. A. Williams.

## MARKET ANALYSIS

**San Diego, Calif.** — ROBERT MOODY GRAIN ANALYSIS, P. O. Box 1821. Weekly commodity advisory service in soybean futures traded on the Chicago Board of Trade.

**Sherman Oaks, Calif.** — COMMETRICS INSTITUTE, 14944 Rhinestone Dr. Commodity futures price trend research and forecast.

**Miami 9, Fla.** — LAMBERT-GANN PUBLISHING CO., INC., Main P. O. Box 1505.

**Atlanta 1, Ga.** — MARKET ADVISORY BUREAU, P. O. Box 2106. Letters and wires giving definite buying-selling advices on soybeans, wheat, corn, cotton and stocks.

**Chicago 1, Ill.** — NATIONAL GRAIN TRADER, 35 E. Wacker. Specific grain advices.

**Chicago 4, Ill.** — TECHNICAL TRADING TACTICS, 2025 Board of Trade Bldg. Commodity chart analysis and charts.

**Hudson, Iowa** — AMERICAN SOYBEAN ASSN. LATE NEWS — Association newsletter published 32 times yearly. Latest crop and market information on soybeans and soybean products.

**St. Louis 8, Mo.** — DOANE AGRICULTURAL SERVICE, INC., Box S, 5142 Delmar Blvd. Agricultural research and market analysis for farm, business and industrial firms. Plant location and economic feasibility studies.

**New York 5, N. Y.** — COMMODITY RESEARCH BUREAU, INC., 82 Beaver St. Commodity Year Book, Futures Market Service, and Commodity Chart Service — publications which include statistics, charts and written analyses concerned with soybean and soybean products price trends.

**New York 17, N. Y.** — INDUSTRIAL COMMODITY CORP., 122 E. 42nd St. Firm of economic consultants serving top management of leading firms (United States and abroad) on personal and confidential basis. Work adjusted to individual needs. Short and long-term specific price advices on soybeans, oil and meal, and other commodities.

**New York 17, N. Y.** — J. CARVEL LANGE, INC., 122 E. 42nd St., subsidiary of Industrial Commodity Corp. Specializing in year-ahead specific sales forecasts of individual client sales, and 5-year-ahead projections of their sales.

**New York 5, N. Y.** — MORGAN, ROGERS & ROBERTS, INC., 64 Wall St. Price advisory service. Also market technical material furnished for price anticipation in soybeans and related products.

**New York 5, N. Y.** — THE TRADE NEWS SERVICE, 45 Exchange Place. Daily market report covering developments in soybeans, soybean oil and meal, and other oils, meals and fats. Weekly comment and outlook for demand, supply and price.

## MILL CONSTRUCTION CONTRACTORS

**Chicago Heights, Ill.** — DAVIDSON-KENNEDY ASSOCIATES CO., 2719 Chicago Rd., P. O. Box 189. Also at 1090 Jefferson St., P. O. Box 2427, Atlanta, Ga. Surveys, complete plant design, process equipment, and plant construction.

**Fort Wayne, Ind.** — MILL ENGINEERING CO., P. O. Box 2405. Design and manufacture of special machinery required for the milling industry.

**Salina, Kans.** — JOHNSON ELEVATOR CONSTRUCTION, INC., 106 N. Oakdale. Grain elevator construction.

**Kansas City, Mo.** — JONES-HETTELSATER CONSTRUCTION CO., 1911 Baltimore Ave.

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Omaha, Nebr.—RYAN CONSTRUCTION CO., 2606 Taylor St.

Omaha, Nebr.—TILLOTSON CONTRACTING CO., Box 613. Mill and elevator construction.

Pittsburgh, Pa.—BLAW-KNOX CO., chemical plants div. Also Chicago 1, Ill. Processing, warehousing and feed mixing plants.

## MILLING SERVICE

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Chicago 23, Ill.—MODERN PROCESS EQUIPMENT, INC., 3150 S. Kolin Ave. Mill roll grinding and corrugating. New rolls.

Des Moines, Iowa—BARNARD & LEAS MFG. CO., INC., 1200 12th St. S. W. Grinding and corrugating mill rolls.

Minneapolis 14, Minn.—TWIN CITY MACHINE CO., 527 2nd Ave. S.E. Roll grinding and corrugating. New rolls.

Kansas City, Mo.—GENERAL MILL EQUIPMENT CO., 2021 Pennsylvania Ave. Roll corrugating.

St. Louis, Mo.—DESIGN MFG. & EQUIPMENT CO., 1025 N. 6th St. Roll grinding and corrugating.

St. Louis 4, Mo.—ESSMUELLER CO. Roll grinding and corrugating.

Oklahoma City 5, Okla.—ROSS MACHINE & MILL SUPPLY, INC., 12 N. E. 28th St. Roll grinding and corrugating, new rolls. Repair service.

Muncy, Pa.—SPROUT, WALDRON & CO. INC. Roll grinding and corrugating.

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Minneapolis, Minn.—EAGLE IRON WORKS CO., 829 S. 5th St. Machinery repairing of all kinds.

Newark 2, N. J.—SKEIST & SCHWARZ LABORATORIES, INC., 89 Lincoln Park. Research on the use of soybean oils, fatty acids, and pitches in coatings, adhesives, plastics, plasticizers, mastics, compositions, and chemical intermediates.

## OIL TRANSPORTS

Iowa City, Iowa—ELDON MILLER, INC. Branches at Coralville, Cedar Rapids, Des Moines, Dubuque, Fort Madison, Iowa; Chicago, Dixon, E. Peoria, Joliet, Roxanna, Ill.; Kansas City and St. Louis, Mo.; LaCrosse and Madison, Wis.; Eldorado, Kans.; Tulsa, Okla.; Memphis, Tenn. Common carrier by highway, inter-state and intra-state, for vegetable oils and blends thereof, and vegetable oil products.

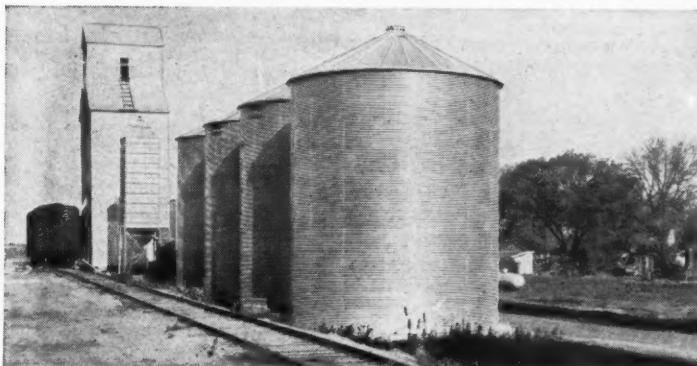
Cincinnati 32, Ohio—STILLPASS TRANSIT CO., INC., 4967 Spring Grove Ave. Transportation of vegetable and animal oils, blends thereof in stainless steel tank trailers.

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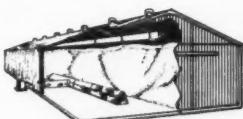
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**Hinden, Conn.**—**ENTOLETER DIV.**, Safety Industries, Inc., 1187 Dixwell Ave. "Entoleter" centrifugal hullers and aspirators.

**Cedar Rapids, Iowa**—**BARNARD & LEAS MFG. CO. INC.**, 1200 12th St. SW.

**Hopkins, Minn.**—**PROCESS MACHINERY DIV.**, Superior Separator Co., 121 Washington Ave. S. Fractionating aspirators.

**Minneapolis 18, Minn.**—**SIMON-CARTER CO. Silver Creek, N. Y.**—**S. HOWES CO., INC.**

**Springfield, Ohio**—**BAUER BROS. CO.** Shaker aspirators.

**Dallas, Tex.**—**SUTTON, STEELE & STEELE, INC.** S. S. & S. stratifying aspirators.

## BAGGING EQUIPMENT

**Chicago, Ill.**—**CENTRAL TAG CO.**, 2715 W. Harrison St. Subsidiary of Denny Tag Co., Westchester, Pa. Manufacturer of all types of tags—plain, printed, manifold, perforated.

**Chicago 50, Ill.**—**B. F. GUMP CO.**, 1309 S. Cicero Ave. Bag packers.

**Chicago 6, Ill.**—**SEEDBURO EQUIPMENT CO.**, 794 Converse Bldg. Bag cleaners, closers, stackers, trucks.

**Chicago 10, Ill.**—**UNION SPECIAL MACHINE CO.**, 400 N. Franklin St. Bag Closers.

**Evanston, Ill.**—**BURROWS EQUIPMENT CO.**, 1316-17 Sherman Ave. Bag tags, cleaners, closers, trucks.

**Grand Rapids 2, Mich.**—**RAPIDS-STANDARD CO., INC.**, Rapistan Bldg. Plants at 144 Trowbridge N.W.; and Plymouth Rd. N.E. "Wheel-Ezy" hand trucks; steel-forged and cold-forged casters.

**Faribault, Minn.**—**NUTTING TRUCK & CASTER CO.**, 1201 W. Division St. Platform, bag, box, hopper and dolly trucks; jack and skid systems; wheels; casters.

**Minneapolis 13, Minn.**—**DAY CO.**, 810 3rd Ave. N.E. Pneumatic bag cleaners.

**Minneapolis 6, Minn.**—**DAVE FISCHBEIN CO.**, 2720 30th Ave. S. Bag closers.

**Clifton, N. J.**—**RICHARDSON SCALE CO.**, 668 Van Houten Ave. Bag packers.

**New York, N. Y.**—**WILCOX & GIBBS SEWING MACHINE CO.**, 214 W. 39th St. Plant at Nyack, N. Y. Filled bag closing machines.

**Silver Creek, N. Y.**—**S. HOWES CO., INC.** Feed and flour packers.

**Syracuse 1, N. Y.**—**LAMSON CORP.**, Lamson St. Industrial trucks, pallet loaders, palletless loaders.

**Westerville, Ohio**—**J. W. HANCE MFG. CO.** "Grip-Master" bag holders.

**Muncy, Pa.**—**SPROUT, WALDRON & CO., INC.** Sack cleaners.

**Rutland, Vt.**—**HOWE SCALE CO., INC.** Hand trucks.

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The advertisements in this issue of THE SOYBEAN BLUE BOOK deserve your careful attention. They represent dependable sources of supply of the many things you need in your soybean operations — new materials, new equipment, new methods, new products, new services, backed by technical knowledge and experience. These advertisers can be of much help to you.

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## BAG MANUFACTURERS

**Savannah, Ga.**—CHEMICAL PACKAGING CORP., P. O. Box 178. Also at Louisville, Ky. Manufactures multiwall paper bags.

**Indianapolis, Ind.**—MAX KATZ BAG CO., 316 S. New Jersey St. Burlap, cotton, paper bags, new, plain, or printed for soybeans and soybean oil meal. Used burlap or cotton bags.

**Des Moines, Iowa—MIDWEST BURLAP & BAG CO.**, 1401 Thomas Beck Road. Also offices in Westville, Ill.; Minneapolis, Minn.; Kansas City, Mo. Manufacturer of new paper, burlap and cotton bags; processor and converter of used burlap and cotton bags.

**Kansas City, Kans.—PIONEER BAG CO.**, 1800 N. 7th St. Also operates Allied Paper Bag Corp. and Pioneer Mesh Weaving Mills, North Kansas City, Mo. Manufactures new and used burlap bags for packing soybean products.

**Baltimore 24, Md.—PREMIUM BAG CO.**, 2353 Boston St. Burlap and cotton bags.

**Minneapolis 1, Minn.—LEADER BAG CO.**, 118 Portland Ave. Textile bag manufacturer.

**Minneapolis 14, Minn.—SAM MILLER BAG CO.**, 861-871 E. Hennepin. Manufactures new burlap and cotton bags; reconditioned used burlap and cotton bags for soybean oil meal.

**Kansas City 1, Mo.—CENTRAL BAG CO.**, 1323 W. 13th St. Designing, manufacturing and printing of new burlap and cotton bags. Also, all types of secondhand bags.

**Kansas City, Mo.—PERCY KENT BAG CO., INC.**, 5910 Winner Rd. Offices in Buffalo and New York. Designs and manufactures cotton, burlap and multiwall bags.

**St. Louis 2, Mo.—BEMIS BRO. BAG CO.**, 408 Pine St., Box 68. Offices in principal cities. Cotton, burlap, waterproof paper-lined textile and multiwall paper shipping sacks; polyethylene bags.

**St. Louis 6, Mo.—REPUBLIC BAG CO.**, 1540 Blair Ave. Burlap and cotton bag processor.

**St. Louis 6, Mo.—ST. LOUIS BAG CO.**, 1206-1214 N. 1st St. New burlap and cotton bags. Processor and handler of used bags.

**St. Louis 3, Mo.—UNITED BAGS, INC.**, 1510 Clark Ave., P. O. Box 297. New and used cotton, burlap and paper bags for soybeans, soybean oil meal and other products.

**Lynhurst, N. J.—PREMIER BAG CO., INC.**, 700 Pennsylvania Ave. Manufacturer of new burlap and cotton bags for soybean oil meal.

**Brooklyn 16, N. Y.—P. PUCHKOFF & SONS, INC.**, 220 Kosciusko St. Industrial and specialty paper packaging supplier.

**Canajoharie, N. Y.—ARKELL & SMITHS**. Other plants at Mobile, Ala.; Wellsburg, W. Va.; Hudson Falls, N. Y. Offices in New York, Kansas City, Columbus, Mobile and Chicago. Supplier of multiwall paper shipping sacks for soybeans and soybean oil meal.

**New York 17, N. Y.—CHASE BAG CO.**, 155 E. 44th St. Factories in Buffalo, Crossett, Ark., Dallas, Goshen, Kansas City, Los Angeles, Minneapolis, New Orleans, Philadelphia, Portland, Ore., Reidsville, N. C., St. Louis and Toledo. Offices in principal cities. Multiwall paper, burlap and cotton bags.

**New York 22, N. Y.—HUDSON PULP & PAPER CORP.**, 477 Madison Ave. Plants at Palatka, Fla.; Wellsburg, W. Va.; Pine Bluff, Ark. All types of multiwall paper bags for soybean oil meal and dry derivatives.

**New York 17, N. Y.—INTERNATIONAL PAPER CO.**, bagpak div., 220 E. 42nd St. Plants at Camden, Ark., Mobile, Ala., and Bastrop, La. Multiwall paper bags.

**New York 20, N. Y.—KRAFT BAG CORP.**, 630 5th Ave. Also at Daily News Bldg., Chicago 6; St. Marys, Ga.; Gilman, Vt. Subsidiary of Gilman Paper Co. Heavy-duty multiwall shipping sacks of various types and sizes.

**New York 17, N. Y.—ST. REGIS PAPER CO.**, 150 E. 42nd St. Offices in principal cities.

**New York 7, N. Y.—UNION BAG-CAMP PAPER CORP.**, 233 Broadway. Manufactures multiwall paper bags for packaging soybean oil meal and other feeds.

**Philadelphia, Pa.—BELMONT BURLAP BAG CO.**, 2719 N. Edgemont St. Also at 9214 Otsego Ave., Detroit, Mich. Burlap and cotton bags for packing soybeans.

**Philadelphia 34, Pa.—GENERAL BAG & BURLAP CO.**, 3435 Melvale St. Affiliate of Consolidated Bag Corp. Manufacturer and reconditioner of textile bags.

**Memphis 12, Tenn.—CROWN BAG CO.**, 2686 Harvard St. Cotton and burlap bags.

**Memphis 2, Tenn.—LANGSTON BAG CO.**, 1076 Texas St. Manufacturer of new and processed cotton and burlap bags.

**Memphis, Tenn.—SEMMES BAG CO., INC.**, 715 Linden Ave., P. O. Box 2087, DeSoto Sta. Manufactures burlap and cotton bags.



## BAG MANUFACTURERS

(Continued)

**Nashville 1, Tenn.** — WERTHAN BAG CORP., 1400 8th Ave. N. Also plant at 303 Thalia St., New Orleans, La. New and used burlap and cotton textile bags and multiwall paper bags for sacking soybeans and soybean oil meal. Cotton sail twine for hand closing. Knotless cotton sewing thread for machine closing.

**Houston 1, Tex.** — LONE STAR BAG & BAGGING CO., P. O. Box 276. New and secondhand burlap and cotton bags. Multiwall paper and mesh bags.

**Milwaukee 2, Wis.** — FREDMAN BAG CO., 330 E. Clybourn St. Cotton and burlap bags.

## BELTING

**Denver 17, Colo.** — GATES RUBBER CO., 999 S. Broadway. V-belts.

**Chicago 44, Ill.** — FLEXIBLE STEEL LACING CO., 4607 Lexington St. Belt fasteners and lacings for belting.

**Chicago 23, Ill.** — IMPERIAL BELTING CO., 1750 S. Kilbourn Ave. Manufactures innerlocked and specially impregnated stitched canvas elevator belting which withstands oils, wear and abrasion.

**Chicago 1, Ill.** — LINK-BELT CO., Dept. SBB-59, Prudential Plaza. Also at Indianapolis, Philadelphia and Colmar, Pa., Atlanta, Houston, Minneapolis, San Francisco, Los Angeles, Seattle, Toronto. Conveyor belting.

**Chicago 6, Ill.** — SEEDBURO EQUIPMENT CO., 794 Converse Bldg.

**Evanston, Ill.** — BURROWS EQUIPMENT CO., 1316-7 Sherman Ave.

**Peoria, Ill.** — PAUL J. HAGERTY EQUIPMENT CO., 800 S. Adams St. Transmission, elevating and conveyor belting, V-belts and sheaves.

**Mishawaka, Ind.** — DODGE MFG. CORP. V-belts, drives and sheaves.

**Cedar Rapids, Iowa** — DIVINE ENGINEERING INC., Hwy. 218 S. W., P. O. Box 1670.

**Worcester, Mass.** — GRATON & KNIGHT CO., 348 Franklin St. Also Chicago, Dallas, St. Louis, New York and Oakland. Transmission leather belting, belting cements, belt dressings, belt lacing.

**Grand Rapids 2, Mich.** — CLIPPER BELT LACER CO., 974 Front Ave. N. W. Manufacturer of belt lacing equipment.

**Minneapolis, Minn.** — R. R. HOWELL CO., 31st Ave. and S.E. 4th St. Bucket belts.

**Minneapolis 13, Minn.** — STRONG-SCOTT MFG. CO., 451 Taft St. N. E. Belting. Speed reducers.

**Kansas City, Mo.** — GENERAL MILL EQUIPMENT CO., 2021 Pennsylvania Ave. Belting, V-belt and chain-belt drives.

**St. Louis, Mo.** — DESIGN MFG. & EQUIPMENT CO., 1025 N. 6th St.

**New York 7, N. Y.** — VICTOR BALATA & TEXTILE BELTING CO., 53 Park Place. Also 300 W. Hubbard St., Chicago 10. Plant at Easton, Pa. Solid-woven, canvas-stitched, neoprene-treated, hycar, and balata types of conveyor, elevator and transmission belting.

**Memphis, Tenn.** — DABNEY-HOOVER SUPPLY CO., 45 W. Virginia. Elevator, conveyor and power transmission belting.

**Memphis, Tenn.** — LEWIS SUPPLY CO., 477 S. Main St.

## CHAINS

**Fresno, Calif.** — VALLEY FOUNDRY & MACHINE WORKS, INC., 2510 S. East Ave.

**Chicago 1, Ill.** — LINK-BELT CO., Dept. SBB-59, Prudential Plaza. Also at Indianapolis, Philadelphia and Colmar, Pa., Atlanta, Houston, Minneapolis, San Francisco, Los Angeles, Seattle, Toronto. Chains of all types for conveyors, elevators and drives.

**Peoria, Ill.** — PAUL J. HAGERTY EQUIPMENT CO., 800 S. Adams St. Roller chain and sprockets.

**Cedar Rapids, Iowa** — DIVINE ENGINEERING INC., Hwy. 218 S. W., P. O. Box 1670.

**Omaha 2, Nebr.** — PURITAN MFG. CO., 1931 N. 11th St. Roller chain with sprockets.

**Columbus 16, Ohio** — JEFFREY MFG. CO., 799 N. 4th St. All types and sizes of chains.

**Memphis, Tenn.** — DABNEY-HOOVER SUPPLY CO., 45 W. Virginia.

**Memphis, Tenn.** — LEWIS SUPPLY CO., 477 S. Main St.

## CONVEYORS, ELEVATORS

**Birmingham, Ala.** — CONTINENTAL GIN CO., industrial div. Offices at Atlanta, Dallas, Memphis, San Francisco, Chicago, Huntington W. Va., Mobile, and New York. Belt, screw, chain-flight conveyors; bucket and screw elevators.

**Paragould, Ark.** — WONDER STATE MFG. CO. Supplier of elevating and conveying equipment.

**Fresno, Calif.** — VALLEY FOUNDRY & MACHINE WORKS, INC., 2510 S. East Ave.

**San Francisco 7, Calif.** — SHANZER MFG. CO., 85 Bluxome St. Screw conveyors. "Max-i-Pacity" hi-speed bucket elevators.

**Aurora, Ill.** — FINCO, INC., Box 968.

**Aurora, Ill.** — STEPHENS-ADAMSON MFG. CO. Offices in all principal cities. Plants at Aurora, Los Angeles, Clarksdale, Miss., and Belleville, Ont. Engineered installations and complete standard line of bulk materials handling equipment.

**Chicago 50, Ill.** — B. F. GUMP CO., 1309 S. Cicero Ave.

**Chicago 1, Ill.** — LINK-BELT CO., Dept. SBB-59, Prudential Plaza. Also at Indianapolis, Philadelphia and Colmar, Pa., Atlanta, Houston, Minneapolis, San Francisco, Los Angeles, Seattle, Toronto. Conveyors and elevators of all types.

**Chicago 35, Ill.** — MATERIALS HANDLING EQUIPMENT CO., 2619 N. Normandy Ave. Marine elevator legs, screw conveyors, bucket elevators, en masse type "Uni-Flo" elevator conveyors, special feeders and special processing machinery.

**Chicago 50, Ill.** — PRATER PULVERIZER CO., 1517-49 S. Court. Conveyors and elevators.

**Chicago 6, Ill.** — SEEDBURO EQUIPMENT CO., 794 Converse Bldg.

**Chicago 3, Ill.** — SUTTLE EQUIPMENT CORP., 135 S. LaSalle St. Plant of Lawrenceville. Manufacturer of portable bulk scale conveyors and portable bulk conveyors.

**Chicago 4, Ill.** — B. I. WELLER CO., 327 S. LaSalle. Screw conveyor and trough, bucket elevators.

**Evanston, Ill.** — BURROWS EQUIPMENT CO., 1316-7 Sherman Ave.

**Jerseyville, Ill.** — BAUGHMAN MFG. CO., INC., 1 Shipman Rd. Portable and stationary belt and screw conveyors. Belt and bucket elevators. Self-unloading and elevating material bodies.

**Peoria, Ill.** — PAUL J. HAGERTY EQUIPMENT CO., 800 S. Adams St. Screw conveyor and accessories.

**Streator, Ill.** — MYERS-SHERMAN CO., 1643 S. Illinois St. Pneumatic portable and stationary conveying equipment, pneumatic elevators.

## CONVEYORS, ELEVATORS

(Continued)

**Hammond, Ind.** — SCREW CONVEYOR CORP., 757 Hoffman St. Hammond "Screw-Lifts" (vertical screw elevator); Hammond "Screw-Veyor" (horizontal or inclined screw conveyor); helicoid and sectional flight conveyor screws; screw-conveyor troughing and accessories; "Tite-Seal" screw conveyor box "U" edging and cover clamps; a complete line of standardized units including proper buckets.

**Cedar Falls, Iowa** — UNIVERSAL HOIST CO., 1326 Waterloo Road. Manufactures bucket elevators, belt conveyors.

**Cedar Rapids, Iowa** — DIVINE ENGINEERING INC., Hwy. 218 S. W., P. O. Box 1670. Conveying and elevating equipment and supplies; "Divinators"—en masse type of unit widely used in the soybean industry.

**Cedar Rapids, Iowa** — HAMMERMILLS, INC., 625 C Ave. N.W. Subsidiary of Pettibone Mulliken Corp. Conveyors, feeders.

**Des Moines 9, Iowa** — CORN STATES HYBRID SERVICE, 803 Keo Way.

**Hull, Iowa** — KOOIKER MFG. CO. Long reach unloading in close quarters with "Koyer" elevator and grain remover, gathering auger.

**Humboldt, Iowa** — CHANTLAND MFG. CO., Box 386. Belt conveyors for bagged products. Bulk conveyors for mash products; elevator legs.

**Enterprise, Kans.** — J. B. EHRSAM & SONS MFG. CO. Elevator boots, head drives, pulleys, buckets, spouting, bins, gates, hoppers and valves; conveyor idlers, trippers, rail car pullers and power shovels.

**Leavenworth, Kans.** — GREAT WESTERN MFG. CO. Elevators—sheet steel. Conveyors—steel spiral.

**New Orleans, La.** — NATIONAL BLOW PIPE & MFG. CO., INC., Claiborne, Poland, Derbigny and Kentucky Sts., P. O. Box 67. Pneumatic conveying equipment.

**Detroit 15, Mich.** — BIN-DICATOR CO., 13946 Kercheval Ave. "Bin-Flo"—aerator unit for inducing gravity flow of fine dry materials.

**Grand Rapids 2, Mich.** — RAPIDS-STANDARD CO., INC., Rapistan Bldg. Plants at 144 Trowbridge N.W.; and Plymouth Road N.E. "Rapistan" power and gravity conveyors, boxcar loaders.

**Saginaw, Mich.** — A. T. FERRELL & CO. Elevator heads and boots, complete elevating legs in standard steel construction, wood construction, super-duty steel construction and vibrating pits, vibrating conveyors.

**Minneapolis, Minn.** — BUHLER MILL ENGINEERING CO., 4207 Nicollet Ave. All mechanical and pneumatic handling equipment, including conveyors for unloading cars or ships.

**Minneapolis 13, Minn.** — DAY CO., 810 3rd Ave. N.E. Pneumatic conveying and cooling systems.

**Minneapolis, Minn.** — GERBER SHEET METAL INC., 518 S. 3rd St. Soybean distributors; steel elevator legs.

**Minneapolis, Minn.** — R. R. HOWELL CO., 31st Ave. and S.E. 4th St. Screw and belt conveyors.

**Minneapolis 1, Minn.** — LINDSAY BROS. CO., 400 N. 1st St. Also at Des Moines, Omaha, Sioux Falls, Fargo and Mankato. Wholesale distributor. Augers, elevators, blowers.

**Minneapolis 13, Minn.** — STRONG-SCOTT MFG. CO., 451 Taft St. N.E. Elevators, conveyors, power shovels.

**North St. Paul 9, Minn.** — STANDARD CONVEYOR CO., 315 N.W. 2nd St. Also plant at 801 Minnesota St., San Francisco. Portable belt conveyors—"Handibelt" and "Handipiler" machines.

**Chief River Falls, Minn.** — FRED FORSBERG & SONS, INC.

**Kansas City, Mo.** — GENERAL MILL EQUIPMENT CO., 2021 Pennsylvania Ave. Conveyors.

**Kansas City, Mo.** — MIDWEST STEEL PRODUCTS CO., Railway Exch. Bldg. Elevating equipment.

**St. Louis 24, Mo.** — ALVEY CONVEYOR MFG. CO., 9301 Olive St. Rd. Engineered conveying systems, package handling specialties. Conveyors—belt, live roller, gravity roller. Automatic pallet loaders and unloaders.

**St. Louis, Mo.** — DESIGN MFG. & EQUIPMENT CO., 1025 N. 6th St. Screw conveyors, belt conveyors, bucket elevators and fittings.

**St. Louis 4, Mo.** — ESSMUELLER CO.

**St. Louis 22, Mo.** — WESTERN RUBBER PRODUCTS CO., Box 3794. Chutes, hoppers, elbows, troughs, screw conveyors and tanks fabricated from rubber faced steel plate.

**Fort Lee, N. J.** — BUHLER BROS., INC., State Highway No. 4. Complete conveying systems.

**New York 51, N. Y.** — HOLLY PNEUMATIC SYSTEMS, INC., 215 E. 149th St. Manufactures pneumatic conveyors for handling bulk materials.

**Syracuse 1, N. Y.** — LAMSON CORP., Lamson St. Manufactures conveyors—pneumatic, roller, belt, live roll; pneumatic tube systems for paper and samples.

**Utica 1, N. Y.** — MUNSON MILL MACHINERY CO., INC., 210 Seward Ave. Subsidiary of Divine Bros. Co. Elevators.

**Greensboro, N. C.** — GENERAL METALS INC., 858 Goldsboro St.

**Raleigh, N. C.** — AEROGLIDE CORP., 510 Glenwood Ave., P. O. Box 1839. Bucket elevators, belt and screw conveyors.

**West Fargo, N. Dak.** — WEST FARGO MFG. CO., Main Ave. Manufactures portable and stationary auger elevators. Miscellaneous equipment for storage bins and elevators. Spouting.

**Columbus 7, Ohio** — BONDED SCALE & MACHINE CO., 74 Bellevue Ave. Portable and stationary conveyors for bulk moving of all materials. Troughing and flat belt types; bucket elevators, scraper conveyors, flight conveyors, floor-to-floor conveyors; portable power stackers and pilers; conveyor parts and parts to build conveyors; troughing idlers and conveyor belting.

**Columbus 16, Ohio** — JEFFREY MFG. CO., 799 N. 4th St. Conveyors and bucket elevators.

**Orient, Ohio** — BELT CORP., 5314 Mill St. "Harvest-Handler" lightweight elevators, Models 50C, 60C, 60R, 65C, 65R. "Versaveyor," bag and box conveyors, Model R. Also special powered conveyors.

**Sidney, Ohio** — SIDNEY GRAIN MACHINERY CO., 424 N. Main St. Conveying equipment and elevators.

**Tiffin, Ohio** — WEBSTER MFG., INC. Designer and manufacturer of stationary elevating and conveying equipment.

**Westerville, Ohio** — J. W. HANCE MFG. CO. Elevating and conveying equipment.

**Oklahoma City, Okla.** — SOUTHWESTERN SUPPLY & MACHINE WORKS, 6 S.E. 4th St. "Rotor Lift" designed to elevate free flowing bulk material; bucket elevators; screw conveyors and accessories.

**Muncy, Pa.** — SPROUT, WALDRON & CO., INC. Screw, sliderboard belt, chain drag conveyors; bucket elevators; Pneu-Vac negative, Pneu-Flo positive; Pneu-Pac package pneumatic bulk materials handling systems; Portaflow portable pneumatic system; Feed Piper pneumatic bulk trucks.

## CONVEYORS, ELEVATORS (Continued)

**Pittsburgh 26, Pa.**—CONVAIR, Box 9671. Plant at 1059 Bay Ridge Ave. Equipment design and manufacture. Pneumatic conveyors.

**York, Pa.**—OLIVER CORP., A. B. Farquhar div., 142 N. Duke St. All types of conveyors for handling bulk or packaged materials.

**Memphis, Tenn.**—DABNEY-HOOVER SUPPLY CO., 45 W. Virginia. Screw conveyors, belt conveyors, bucket elevators, vertical screw lift, portable conveyors.

**Memphis, Tenn.**—J. E. DILWORTH CO., 730 S. 3rd, P. O. Box 2834. Also in Jackson, Miss., and Birmingham, Ala. Industrial supply distributor of conveying equipment.

**Memphis, Tenn.**—LEWIS SUPPLY CO., 477 S. Main St.

**Memphis 3, Tenn.**—W. C. PITTS & SON, INC., 154 N. Front St. Conveying and elevating equipment.

**Memphis, Tenn.**—RIECHMAN-CROSBY CO., 223-229 S. Front St. Elevating and conveying equipment.

**Burleson, Tex.**—THOMAS CONVEYOR CO. INC., P. O. Box 6. Screw conveyors and elevators, bucket elevators, belt and drag conveyors.

**Fort Worth, Tex.**—INDUSTRIAL MACHINERY CO., INC., 2400 S. Main. Screw conveyors, bucket elevators.

**San Antonio, Tex.**—MEYER MACHINE CO., 3528 Fredericksburg Rd., P. O. Box 5096 Beacon Hill Station. Manufacturer and designer of "Simplex" conveying elevators; centrifugal discharge, continuous bucket, roller chain type bucket elevators.

**Milwaukee 16, Wis.**—BLOWER APPLICATION CO., 3165 N. 30th St. Pneumatic conveying systems; rotary feeder valves.

**New London, Wis.**—NEW LONDON ENGINEERING CO., 1700 Division St. Manufactures belt, portable and stationary conveyors—Moto-Belt, Cost Cutter, Light-Loader, Trough Belt, Hi Hopper.

**Racine, Wis.**—MIEHLE—DEXTER SUPER-CHARGER DIV., Christensen Machinery Co., 100 4th St. Manufacturer of rotary positive blowers and exhausters for pneumatic conveying systems.

## DEFOLIANTS

**New York 20, N. Y.**—AMERICAN CYANAMID CO., agricultural div., 30 Rockefeller Plaza.

## DRYING EQUIPMENT FARM DRIERS

**San Francisco 7, Calif.**—SHANZER MFG. CO., 85 Bluxome St. Shanzer recirculating portable crop driers.

**Aurora, Ill.**—FINCO, INC., Box 968.

**Crystal Lake, Ill.**—AMERICAN FARM EQUIPMENT CO., Automatic and manually operated crop driers—heated and natural air—drying bins, aeration systems, moisture testers.

**Boone, Iowa**—ROLFES GRAIN AERATION COMPANIES, 821 15th St. Design, sale and installation of aeration equipment.

**Des Moines 17, Iowa**—CAMPBELL DRYER CO., 3121 Dean Ave.

**Lansing 9, Mich.**—AEROVENT FAN & EQUIPMENT, INC., 5632 S. Pennsylvania Ave., P. O. Box 9007. Plant at Ash and Bauer Sts., Piqua, Ohio. Crop drying and aeration equipment for soybean growers.

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**Minneapolis 26, Minn.**—LAKESHORE MFG. CO., 3338 Re-ubic Ave. "Cropgard" driers.

**Columbus, Nebr.**—BEHLEN MFG. CO. Heated-air batch grain drier, complete with handling equipment; on-the-farm and commercial models. Sizes 375, 500, 750 bu. Dries soybeans, small grain, corn and other crops.

**Columbus, Nebr.**—HACCO MFG. CO., Industrial site. Plant also at Platte Center. Portable batch-type and recirculating driers.

**Scottsbluff, Nebr.**—AIR-O-VATOR CO., INC., 1405 Ave. B. "Air-O-Vator" wind-driven grain drier which operates without heated air.

**New Holland, Pa.**—NEW HOLLAND MACHINE CO. Crop driers—available in electric, PTO and LP gas models.

## GRAIN DRIERS

**Anniston, Ala.**—KILBY STEEL CO., P. O. Box 1489. Soybean drying equipment.

**San Francisco 7, Calif.**—SHANZER MFG. CO., 85 Bluxome St. "Shanzer" columnar grain and soybean driers.

**Cicero 50, Ill.**—HESS CO., 1855 S. 54th Ave. Manufacturer of drying equipment to reduce the moisture content of soybeans for process and storage.

**Evanston, Ill.**—BURROWS EQUIPMENT CO., 1316-7 Sherman Ave.

**Boone, Iowa**—ROLFES GRAIN AERATION COMPANIES, 821 15th St. Design, sale and installation of aeration equipment.

**Davenport, Iowa**—DAVENPORT MACHINE & FOUNDRY CO., 1628 W. 4th St. "Rotary" soybean driers, conditioners, coolers.

**Des Moines 17, Iowa**—CAMPBELL DRYER CO., 3121 Dean Ave.

**Des Moines 9, Iowa**—CORN STATES HYBRID SERVICE, 803 Keo Way. "Campbell" grain driers. Aeration equipment.

**Lansing 9, Mich.**—AEROVENT FAN & EQUIPMENT, INC., 5632 S. Pennsylvania Ave., P. O. Box 9007. Plant at Ash and Bauer Sts., Piqua, Ohio. Crop drying and aeration equipment for soybean growers.

**Saginaw, Mich.**—A. T. FERRELL & CO. Clipper-Randolph soybean, grains, rice and seed driers—continuous car-acities from 300 bushels to 2,500 bushels per hour.

**Minneapolis 1, Minn.**—LINDSAY BROS. CO., 400 N. 1st St. Also at Des Moines, Omaha, Sioux Falls, Fargo and Mankato. Wholesale distributor.

**Columbus, Nebr.**—HACCO MFG. CO., Industrial site. Plant also at Platte Center. Continuous stationary low heat, high air volume grain drying equipment.

**Raleigh, N. C.**—AEROGLIDE CORP., 510 Glenwood Ave., P. O. Box 1839. Grain driers—batch and continuous type.

**Piqua, Ohio**—HARTZELL PROPELLER FAN CO., P. O. Box 909. Drying and conditioning equipment.

**Memphis 3, Tenn.**—W. C. PITTS & SON, INC., 154 N. Front St.

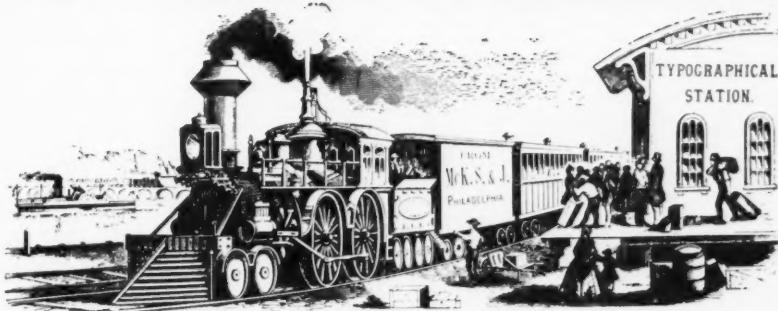
## MEAL DRIERS

**Chicago 22, Ill.**—COMBUSTION ENGINEERING INC., Raymond, Div., 1315 N. Branch St. Manufactures flash drying equipment for soybean processors.

**Chicago 1, Ill.**—LINK-BELT CO., Dept. SBB-59, Prudential Plaza. Also at Indianapolis, Philadelphia and Colmar, Pa., Atlanta, Houston, Minneapolis, San Francisco, Los Angeles, Seattle, Toronto, Roto-Louvre, Multi-Louvre, etc.

SOYBEAN BLUE BOOK

# GRAIN DRIERS BECOME OBSOLETE, TOO!



Transmission of less than 5 h.p. to the draw bar for each 100 h.p. of energy developed from the fuel makes this steam engine obsolete and uneconomical. Scientific and engineering advances in today's engines provide lower cost and more efficient transportation.

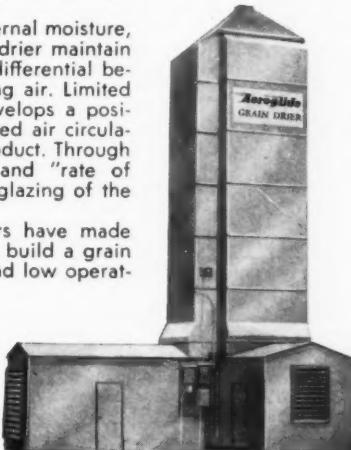
## Modern Aeroglide Driers Lower Operating Costs and Give Better Grain Quality

Modern scientific and engineering advances made in Aeroglide Driers do make older driers obsolete. Grain drying is an exacting process. It demands a scientific approach to such factors as ambient temperature, vaporization, optimum air speeds, heat transfer rate and material agitation.

Since excess moisture in grain is internal moisture, it is mandatory that an efficient grain drier maintain the greatest practical vapor pressure differential between the product and the surrounding air. Limited by critical temperature, Aeroglide develops a positive vapor pressure by uniformly heated air circulation, plus thorough agitation of the product. Through accurate and sensitive temperature and "rate of flow" controls, care is taken to avoid glazing of the grains outer surface.

Full comprehension of these factors have made it possible for Aeroglide engineers to build a grain drier that gives better grain quality and low operating costs.

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## DRYING EQUIPMENT (Continued)

**Baltimore 24, Md.** — EDW. RENNEBURG & SONS CO., 2639 Boston St. Rotary driers of all types (direct and indirect, including variable diameter "Dehydro-Mat" driers), coolers, elevators, conveyors, industrial oil burner systems.

**Cleveland 2, Ohio** — V. D. ANDERSON CO., 1990 W. 96th St. Rotary steam driers, solvent recovery driers.

**Orland, Pa.** — ACME COPPERSMITHING & MACHINE CO. Direct heat, drum, cylindrical, indirect heat, rotary, spray type, steam jacketed, tray, vacuum, "Acme" hi-speed rotary film-type and multi-stage driers.

**San Antonio, Tex.** — MEYER MACHINE CO., 3528 Fredericksburg Rd., P. O. Box 5096 Beacon Hill Station. Manufacturer and designer of "Meyer" batch driers and coolers. Automatic thermostatic controls available in single or double tray units.

**Milwaukee, Wis.** — ALLIS-CHALMERS MFG. CO., gen. machinery div.

**Milwaukee, Wis.** — ARNOLD DRYER CO., div. of the Heil Co., 3000 W. Montana St. Dehydrators.

## DUST CONTROL SYSTEMS DUST COLLECTORS

**Chicago 40, Ill.** — BREUER ELECTRIC MFG. CO., 5100 N. Ravenswood Ave. Dust collectors, portable blowers, industrial vacuum cleaners.

**Chicago 50, Ill.** — PRATER PULVERIZER CO., 1517-49 S. 55th Court.

**Chicago 6, Ill.** — SEEDBURO EQUIPMENT CO., 794 Converse Bldg.

**Evanston, Ill.** — BURROWS EQUIPMENT CO., 1316-7 Sherman Ave.

**Mishawaka, Ind.** — WHEELABRATOR CORP., 1405 S. Byrkit St. Dust and fume collection equipment to ventilate various processing operations. Blast cleaning equipment for maintenance and reconditioning.

**New Orleans, La.** — NATIONAL BLOW PIPE & MFG. CO., INC., Claiborne, Poland, Derbigny and Kentucky Sts., P. O. Box 67.

**Hopkins, Minn.** — PROCESS MACHINERY DIV., Superior Separator Co., 121 Washington Ave. S. Air centrifuge dust collectors.

**Minneapolis 13, Minn.** — DAY CO., 810 3rd Ave. N.E. Dust filters and systems.

**Thief River Falls, Minn.** — FRED FORSBERG & SONS, INC. Bag cleaners.

**Summit, N. J.** — PULVERIZING MACHINERY DIV., Metals Disintegrating Co., Inc., River and Chatham Rds. Manufacturer of "Mikro-Pulsaire" for product recovery and air-conveying industrial dust control.

**Buffalo 25, N. Y.** — DUSTEX CORP., 25 Anderson Rd. Manufacturer of industrial dust collecting equipment and systems.

**Syracuse 1, N. Y.** — LAMSON CORP., Lamson St. Manufactures control vacuum cleaning equipment.

**Cleveland 14, Ohio** — FILTER FABRICS, INC., 1520 E. 17th St. Industrial dust collecting bags built to specification.

**Muncy, Pa.** — SPROUT, WALDRON & CO., INC. Cyclone collectors; dust and products collectors; multi-tube filter dust collectors.

**Orland, Pa.** — ACME COPPERSMITHING & MACHINE CO.

**Milwaukee 16, Wis.** — BLOWER APPLICATION CO., 3165 N. 30th St. Dust collecting systems.

## ELEVATOR BUCKETS

**Chicago 1, Ill.** — LINK-BELT CO., Dept. SBB-59, Prudential Plaza. Also at Indianapolis, Philadelphia and Colmar, Pa., Atlanta, Houston, Minneapolis, San Francisco, Los Angeles, Seattle, Toronto. All types, including the "HS" high speed elevator buckets.

**Chicago 6, Ill.** — SEEDBURO EQUIPMENT CO., 794 Converse Bldg.

**Chicago 4, Ill.** — B. I. WELLER CO., 327 S. LaSalle St.

**East St. Louis, Ill.** — DURA BUKET DIV., National Oats Co., 1931 Baugh Ave. New and improved plastic "Dura-Buket."

**Evanston, Ill.** — BURROWS EQUIPMENT CO., 1316-7 Sherman Ave.

**Moline, Ill.** — K. I. WILLIS CORP.

**Pearie, Ill.** — PAUL J. HAGERTY EQUIPMENT CO., 800 S. Adams St. Buckets.

**Hammond, Ind.** — SCREW CONVEYOR CORP., 757 Hoffman St. Elevator buckets ("Nu-Hy," "Winona," "Salem," "Nu-Type") and bolts.

**Cedar Rapids, Iowa** — DIVINE ENGINEERING INC., Hwy. 218 S.W., P. O. Box 1670.

**Minneapolis, Minn.** — R. R. HOWELL CO., 31st Ave. and S.E. 4th St. Buckets.

**Thief River Falls, Minn.** — FRED FORSBERG & SONS, INC.

**Kansas City, Mo.** — GENERAL MILL EQUIPMENT CO., 2021 Pennsylvania Ave. Elevator buckets.

**St. Louis, Mo.** — DESIGN MFG. & EQUIPMENT CO., 1025 N. 6th St.

**Greensboro, N. C.** — GENERAL METALS INC., 858 Goldsboro St.

**Columbus 16, Ohio** — JEFFREY MFG. CO., 799 N. 4th St. Elevator buckets.

**Muncy, Pa.** — SPROUT, WALDRON & CO. INC.

**Memphis, Tenn.** — DABNEY-HOOVER SUPPLY CO., 45 W. Virginia.

**Memphis, Tenn.** — LEWIS SUPPLY CO., 477 S. Main St.

**San Antonio, Tex.** — MEYER MACHINE CO., 3528 Fredericksburg Rd., P. O. Box 5096 Beacon Hill Station. Manufacturer and designer of fabricated stainless steel or cast aluminum alloy buckets.

## FANS

**Little Rock, Ark.** — HUBERT PHELPS MACHINERY CO., 1700 E. 9th St. Seed cooling fans.

**Aurora, Ill.** — FINCO, INC., Box 968. Blowers.

**Chicago 50, Ill.** — PRATER PULVERIZER CO., 1517-49 S. 55th Court.

**East Moline, Ill.** — DE BOTHEZAT FANS DIV., American Machine & Metals, Inc. Certified ventilating and air moving equipment.

**Evanston, Ill.** — BURROWS EQUIPMENT CO., 1316-7 Sherman Ave.

**New Orleans, La.** — NATIONAL BLOW PIPE & MFG. CO., INC., Claiborne, Poland, Derbigny and Kentucky Sts., P. O. Box 67. Industrial fans.

**Niles, Mich.** — GARDEN CITY FAN CO., 801 N. 8th St., P. O. Box 223. Fans, blowers and exhausters.

**Minneapolis 13, Minn.** — STRONG-SCOTT MFG. CO., 451 Taft St. N.E.

**Springfield, Ohio** — ROBBINS & MYERS, INC., 1345 Lagonda Ave. Also plants at Memphis and Brantford, Ont. Industrial fans.

**Muncy, Pa.** — SPROUT, WALDRON & CO., INC.

**Memphis, Tenn.** — DABNEY-HOOVER SUPPLY CO., 45 W. Virginia.

**Memphis, Tenn.** — LEWIS SUPPLY CO., 477 S. Main St.

## FARM EQUIPMENT

**Bloomington, Ill.**—PORTABLE ELEVATOR MFG. CO. Also plant at Glencoe, Minn. Manufactures portable farm elevators; "Roll-A-Way" conveyors, bale elevators, mow conveyors, self-unloading (gravity) wagon boxes, sub-tillers, field cultivators, truck hoists, tractor-mounted rotary snow blowers.

**Champaign, Ill.**—HARRISON CROPSAVER CO., 524 N. Hickory St. Manufacturer of "Crop-saver" pickup reel for combine.

**Chicago 1, Ill.**—INTERNATIONAL HARVESTER CO., gen. office 180 N. Michigan Ave. McCormick farm equipment, Farmall and International tractors.

**Chicago 6, Ill.**—OLIVER CORP., 400 W. Madison St. Manufactures drills and planters at Springfield, Ohio; combines at Battle Creek, Mich.; plows, disc harrows and cultivators at South Bend, Ind.; wheel tractors at Charles City, Iowa.

**Mendota, Ill.**—H. D. HUME CO., 812 N. Main St. Combination bat and tine pickup reels for combines and windrowers. Crop guards for fast, safe cultivation; wire winder for fencing.

**Moline, Ill.**—JOHN DEERE. Tractors, machines and implements for preparing seedbed and for planting, fertilizing, cultivating, and harvesting soybeans; crop dusters; grain dryers.

**Peoria 8, Ill.**—CATERPILLAR TRACTOR CO. Diesel track-type and wheel-type tractors; motor graders; agricultural tool bars and tools; diesel engines and diesel electric sets; tractor shovels; scrapers; bulldozer blades; and cable and hydraulic controls.

**Churubusco, Ind.**—AMERICAN TRACTOR CORP. Manufacturer of farm implements.

**Crawfordsville, Ind.**—LIFE-TIME GATE CORP. OF INDIANA, Box 49. Manufactures "Life-Time" aluminum and "Fence-Master" galvanized steel gates and "Never-Sag" wood gates.

**Valparaiso, Ind.**—LANTZ MFG. CO., INC., 902-904 Calumet Ave., P. O. Box 392. Manufactures plow coulters, coulter blades, cultivator sweeps, sickle grinders.

**Cedar Rapids, Iowa**—CENTURY ENGINEERING CORP., 401 3rd St. Manufactures sprayers, seeders, fertilizer spreaders, granular insecticide applicators, farm heaters.

**Hull, Iowa**—KOOIKER MFG. CO. Row crop shields.

**Hesston, Kans.**—HESTON MFG. CO., INC. For combines—straw chopper and spreader, grain tank loader and extension, cylinder and concave adjustment, cutter bar extension, retractable finger platform auger, cylinder V-bars, triple sprocket.

**Birmingham, Mich.**—TRACTOR & IMPLEMENT DIV., Ford Motor Co., 2500 E. Maple Rd. "Ford" tractor and "Ford" farm equipment.

**Wayne, Mich.**—GAR WOOD INDUSTRIES, INC. Gar Wood-St. Paul "Dump-It" low-mount farm conversion hoist for pickup and flat-bed trucks; Gar Wood-St. Paul "Frate Gate" hydraulic elevating end-gates for flat-bed trucks.

**Minneapolis, Minn.**—AMERICAN IRON WORKS, INC., 1109 S. 2nd St. Manufactures "Straw-master" device attached to rear of combine to chop and spread soybean straw; "Measur-Matic" combine measuring device.

**Minneapolis 22, Minn.**—BETTER-BILT MFG. CO., 5182 W. Broadway. Manufacturer of "Culti-Leveler"—ground leveling attachment used in the cultivation of beans and corn.

**Minneapolis, Minn.**—ELROY PRODUCTS CO., 1109 S. 2nd St. Affiliated with Polaris Industries Inc., Roseau, Minn. "Polaris" straw cutter and spreader.

**Minneapolis, Minn.**—BEN GUSTAFSON & SON MFG. CO., 6501 Cambridge St. Seed treating machinery—mist-type and slurry, drum-type and dry treaters. Builds treaters for special treating problems.

**Minneapolis, Minn.**—WALTER HAERTEL CO., 2840 4th Ave. S. Manufacturer of "Harcro Straw Sav-all"—attachment for combine which places two windrows into one for baling straw.

**Minneapolis 1, Minn.**—LINDSAY BROS. CO., 400 N. 1st St. Also at Des Moines, Omaha, Sioux Falls, Fargo and Mankato. Wholesale distributor. Straw cutters, combining equipment, "Hume" reel, "Polaris" straw chopper.

**Minneapolis 1, Minn.**—MINNEAPOLIS-MOLINE CO. Tillage tools, visionlined tractors, planters, and harvesters specially adapted to modern soy production.

**Columbus, Nebr.**—HABCO MFG. CO. Irrigation equipment—aluminum irrigation pipe, gates, fittings, and couplings.

**Greensburg, N. C.**—GENERAL METALS INC., 858 Goldsboro St.

**West Fargo, N. Dak.**—WEST FARGO MFG. CO., Main Ave. Truck bodies. Fertilizer attachment for grain drills.

**Bellevue, Ohio**—COCKSHUTT FARM EQUIPMENT INC. Also at Brantford and Smith Falls, Ontario, Canada. Complete line of farm equipment for the grower. Special attention given to soybean growers in development of planters, drills, combines—pull-type and self-propelled.

**New Holland, Pa.**—NEW HOLLAND MACHINE CO. Crimpers, crushers, crop drying wagons, crop drying fans, farm elevators.

**York, Pa.**—OLIVER CORP., 142 N. Duke St. Manufacturer of "Iron Age" planters.

**Spokane 1, Wash.**—CALKINS MANUFACTURING CO., 1102 N. Atlantic St. Also at Golden, Colo. Manufacturer of combination cleaner, grader and treater. Three models of slurry treaters. "Westate" land leveler used in irrigated soybean growing.

**Milwaukee 1, Wis.**—ALLIS-CHALMERS MFG. CO. Wheel and crawler tractors; moldboard and disc plows; disc harrows; field cultivators; 1, 2 and 4-row planters, grain and seed drills; 1, 2 and 4-row cultivators; pull-type and self-propelled combines; mowers; rakes; field balers; elevators; loaders; manure spreaders.

**Racine, Wis.**—J. I. CASE CO., 700 State St. Agricultural machinery for the production of soybeans and other crops.

**Racine, Wis.**—MASSEY-HARRIS-FERGUSON INC., Quality Ave. Plants at Detroit, Mich.; Wichita, Kans.; Fowler, Calif.; also in Canada and Europe. Manufactures farm tractors, combines and "Ferguson System" implements.

## FERTILIZERS

**Atlanta, Ga.**—TENNESSEE CORP. Trace elements—manganese oxide, manganese sulfate; copper, zinc and iron sulfate; "Nu-Iron"—nutritional iron.

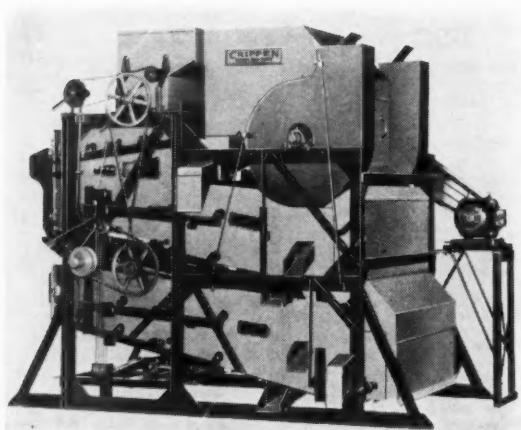
**Chicago 6, Ill.**—THOMSON PHOSPHATE DEPT., International Minerals & Chemical Corp., 20 N. Wacker Dr. Rock phosphate.

**New York 7, N. Y.**—AMERICAN AGRICULTURAL CHEMICAL CO., 50 Church St.

**New York 20, N. Y.**—AMERICAN CYANAMID CO., agricultural div., 30 Rockefeller Plaza.

**Columbia, Tenn.**—RUHM PHOSPHATE & CHEMICAL CO., P. O. Box 361. Phosphate.

# CRIPPEN CLEANERS



Crippen Model MM-5472

All metal construction

## IDEAL FOR SOYBEANS

AND GRAIN FOR COMMERCIAL or SEED QUALITY

Crippen equipment is engineered for efficient cleaning and increased output with fewer runs, cutting cleaning costs.

Compact in design they provide the biggest capacity for the smallest floor space. Crippen manufactures a full line of cleaners, scalpers, scarifiers, separators, polishers.

Write today for free literature and prices.



**CRIPPEN**

750 VIRGINIA STREET

MANUFACTURING CO., INC.

— ALMA, MICHIGAN

GRAIN, BEAN AND SEED CLEANERS, SCALPERS,  
GRADERS AND POLISHERS

## FUMIGANTS

**Chicago 31, Ill.**—DOW CHEMICAL CO., 6000 W. Touhy Ave.

**Chicago 6, Ill.**—SEEDBURO EQUIPMENT CO., 794 Converse Bldg.

**Evanston, Ill.**—BURROWS EQUIPMENT CO., 1316-7 Sherman Ave.

**North Kansas City 16, Mo.**—DOUGLAS CHEMICAL CO., 620 E. 16th Ave. Grain sanitation products.

**New York 20, N. Y.**—AMERICAN CYANAMID CO., agricultural div., 30 Rockefeller Plaza.

## FUNGICIDES

**Richmond, Calif.**—CALIFORNIA SPRAY-CHEMICAL CORP., Lucas and Ortho Way. Manufacturer and formulator of agricultural chemicals.

**Naugatuck, Conn.**—UNITED STATES RUBBER, Naugatuck Chemical Div. Phygon-XL, Spergon Wettable, Spergon gladiolus dust.

**New York 7, N. Y.**—AMERICAN AGRICULTURAL CHEMICAL CO., 50 Church St.

## GERMINATORS

**Chicago 6, Ill.**—SEEDBURO EQUIPMENT CO., 794 Converse Bldg.

**Evanston, Ill.**—BURROWS EQUIPMENT CO., 1316-7 Sherman Ave.

**Minneapolis, Minn.**—BEN GUSTAFSON & SON MFG. CO. Small seed germinators.

## GRAIN AND SEED CLEANING AND SEPARATING EQUIPMENT

**Los Angeles 58, Calif.**—SOUTHWESTERN ENGINEERING CO., 4800 Santa Fe Ave. Manufacturers "Sweco" vibrating screen separators.

**Rocky Ford, Colo.**—OLIVER MFG. CO. Gravity separators and stoners.

**Chicago 6, Ill.**—SEEDBURO EQUIPMENT CO., 794 Converse Bldg.

**Evanston, Ill.**—BURROWS EQUIPMENT CO., 1316-7 Sherman Ave.

**Cedar Rapids, Iowa**—BARNARD & LEAS MFG. CO., INC., 1200 12th St. S.W. Scalping, screening, aspirating and other equipment for grain cleaning and grading.

**Des Moines 9, Iowa**—CORN STATES HYBRID SERVICE, 803 Keo Way.

**Alma, Mich.**—CRIPPEN MFG. CO., 750 Virginia St. Scalpers and cleaners for cleaning and grading soybeans for commercial and seedling quality.

**Saginaw, Mich.**—A. T. FERRELL & CO. "Clipper" soybean cleaners, high capacity market cleaners, grain and seed cleaners, dust collectors, trash blowers, car loaders and 215 perforated and wire mesh screens.

**Hopkins, Minn.**—PROCESS MACHINERY DIV., Superior Separator Co., 121 Washington Ave. S. Grain separators.

**Minneapolis, Minn.**—BUHLER MILL ENGINEERING CO., 4207 Nicollet Ave. Complete line of seed cleaning equipment.

**Minneapolis, Minn.**—CLELAND MFG. CO., 2800 Washington Ave. N. "Krusow Double Spiral" separates corn from soybeans; "Expert" cleaner and grader.

**Minneapolis 1, Minn.**—LINDSAY BROS. CO., 400 N. 1st St. Also at Des Moines, Omaha, Sioux Falls, Fargo and Mankato. Wholesale distributor. Cleaning machinery. "Clipper" cleaners.

**Minneapolis 11, Minn.**—PIONEER FANNING MILL CO., 1328 N. 2nd St. "Bull Dog" fanning mill, soybean cleaner, perforated zinc replacement material for soybean cleaners.

**Minneapolis 18, Minn.**—SIMON-CARTER CO. Screening and aspirating equipment for high capacity handling of beans as received and ahead of driers and for refined cleaning of beans to be processed; also for removal of hulls from cracked beans.

**Minneapolis 13, Minn.**—STRONG-SCOTT MFG. CO., 451 Taft St. N. E. "Power-Flo" separators.

**Thief River Falls, Minn.**—FRED FORSBERG & SONS, INC. Gravity separators and screen cleaners, stoning separators, stoners and separators.

**Brockton, N. Y.**—HUNTLEY MFG. CO. "Monitor" master cleaner for soybean processors.

**Rochester 11, N. Y.**—ERDLE PERFORATING CO. INC., 171 York St. Grain cleaning screens.

**Silver Creek, N. Y.**—S. HOWES CO., INC. Separators, scalpers, cleaners, mixers.

**Cincinnati 23, Ohio**—ORVILLE SIMPSON CO., 1236 Knowlton St. "Rotex" screeners.

**Columbus 7, Ohio**—BONDED SCALE & MACHINE CO., 74 Bellevue Ave. Cleaning, sizing, grading and sorting machines.

**Sidney, Ohio**—SIDNEY GRAIN MACHINERY CO., 424 N. Main St. Grain cleaners.

**Springfield, Ohio**—BAUER BROS. CO. Permanent magnetic separators and specific gravity separators and shakers.

**Westerville, Ohio**—J. W. HANCE MFG. CO. Seed graders, seed treaters, seed cleaner screen material for all types fanning mills, "Super-Speed" scalping shoes for grain, beans and corn.

**Oklahoma City 5, Okla.**—ROSS MACHINE & MILL SUPPLY, INC., 12 N. E. 28th St.

**Memphis, Tenn.**—DABNEY-HOOVER SUPPLY CO., 45 W. Virginia. Cleaners and scalpers.

**Dallas, Tex.**—SUTTON, STEELE & INCE, INC. "S & S" gravity tables and separating screens.

**San Antonio, Tex.**—MEYER MACHINE CO., 3528 Fredericksburg Rd., P. O. Box 5096 Beacon Hill Station. Manufactures and designs "Vibraflex" feeders, blowers, vibrating units, sizing and scalping machines, separators.

**Milwaukee 46, Wis.**—STEARNS MAGNETIC PRODUCTS, div. of Indiana Steel Products Co., 635 S. 28th St. All types of permanent and electro magnetic separators (spout magnetic drums, magnetic pulleys, plate magnets, grate magnets, suspended separation magnets).

## GRAIN GRADING EQUIPMENT, MOISTURE TESTERS

**Alhambra, Calif.**—MOISTURE REGISTER CO., 1510 W. Chestnut St. "Model G5" and "Buckeye Moisture Register"—electronic moisture testing instruments for use on soybeans, soybean oil meal, and other oil-bearing and non-metallic, powdered and granular materials.

**Chicago 6, Ill.**—SEEDBURO EQUIPMENT CO., 794 Converse Bldg. Official equipment for testing and grading soybeans and grain. "Steinlite" moisture and oil testers.

**Chicago 3, Ill.**—SUTTLE EQUIPMENT CORP., 135 S. LaSalle St. Plant at Lawrenceville. Manufactures "Boerner" samplers, multiple and modified dividers.

**Evanston, Ill.**—BURROWS EQUIPMENT CO., 1316-7 Sherman Ave. Moisture testers.

**Evanston, Ill.**—GARDEN CITY INSTRUMENTS INC., 931 Sherman Ave. Moisture meter for all types of grain. Relative humidity recorders, controllers, indicators. Service, repairs and parts for Weston (Tag-Hepp) moisture meter for grain.

**Mecon, Ill.**—RADSON ENGINEERING CORP. Radson Model 20 grain moisture tester.

## GRAIN GRADING EQUIPMENT, MOISTURE TESTERS—(Continued)

**Saginaw, Mich.**—**A. T. FERRELL & CO.** Hand testing screens; "Clipper" dockage tester.

**Minneapolis, Minn.**—**CUTHBERT CO., INC.**, 302 4th Ave. S. Plants at 322 S. 3rd St. and 246 4th Ave. S. Manufactures test equipment, Moisture, dockage and general elevator supplies.

**Columbus, Nebr.**—**BEHLEN MFG. CO.** New electronic unit for on-the-farm moisture testing of all small grains.

**Newark 12, N. J.**—**WESTON INSTRUMENTS**, 614 Frelinghuysen Ave., div. of Daystrom, Inc. Indicating, recording and controlling instruments; moisture meters.

**Westerville, Ohio**—**J. W. HANCE MFG. CO.** Grading machinery for industry, small capacity.

**Memphis, Tenn.**—**DABNEY-HOOVER SUPPLY CO.**, 45 W. Virginia.

## GRAIN HANDLING EQUIPMENT

**Chicago 6, Ill.**—**SEEDBURO EQUIPMENT CO.**, 794 Converse Bldg.

**Evanston, Ill.**—**BURROWS EQUIPMENT CO.**, 1316-7 Sherman Ave.

**Geneva, Ill.**—**DUNBAR-KAPPLE INC.** "Vac-U-Vator" pneumatic grain handler and "Feed-O-Vator" pneumatic feed mover.

**Hull, Iowa**—**KOOIKER MFG. CO.**

**Minneapolis, Minn.**—**CUTHBERT CO., INC.**, 302 4th Ave. S. Plants at 322 S. 3rd St. and 246 4th Ave. S.

**Columbus 7, Ohio**—**BONDED SCALE & MANUFACTURE CO.**, 74 Bellevue Ave.

**Memphis, Tenn.**—**DABNEY-HOOVER SUPPLY CO.**, 45 W. Virginia. All types.

## GRANULATORS

**Chicago 50, Ill.**—**PRATER PULVERIZER CO.**, 1517-49 S. 55th Court. For soybean expeller cake and water balls.

**Muncy, Pa.**—**SPROUT, WALDRON & CO., INC.**

## GRINDING AND MIXING EQUIPMENT

**Oakland 23, Calif.**—**MOORE DRY DOCK CO.**, Adeline St. Rolls for grinding and flaking mills.

**San Francisco 10, Calif.**—**ENTERPRISE ENGINE & MACHINERY CO.**, 18th and Florida Sts. Subsidiary of General Metals Corp. "Vertical" grinder for preparation of soybeans, copra, cottonseed, flax seed and other oil-bearing materials.

**Santa Rose, Calif.**—**RIETZ MFG. CO.**, 150 Todd Road. Branch at West Chester, Pa. "Rietz Disintegrators" for high capacity grinding of all oil-bearing material. "Rietz Prebreakers" for coarse crushing of all kinds.

**Whittier, Calif.**—**JOHN W. WILLIAMSON & SONS, INC.**, 666 W. Putnam Dr. Hammermills, mixers, batching systems, blenders, air lifts.

**Hamden, Conn.**—**ENTOLETER DIV.**, Safety Industries, Inc., 1187 Dixwell Ave. "Entoleter" centrifugal impact mills and centrifugal mixers.

**Atlanta, Ga.**—**DAVIDSON-KENNEDY CO.**, 1090 Jefferson St. N.W., P. O. Box 2427. Also P. O. Box 189, Chicago Heights, Ill. Toasters, cracking and flaking rolls, bean heaters.

**Chicago 22, Ill.**—**COMBUSTION ENGINEERING, INC.**, Raymond Div., 1315 N. Branch St. Manufactures pulverizing equipment for soybean processors.

**Chicago 50, Ill.**—**PRATER PULVERIZER CO.**, 1517-49 S. 55th Court. Dual screen pulverizers for soybean oil meal; two stage grinding setups; special hull grinders; "Blue Streak" triple reduction mills; hammermills.

**Chicago 6, Ill.**—**SEEDBURO EQUIPMENT CO.**, 794 Converse Bldg.

**Chicago Heights, Ill.**—**DAVIDSON-KENNEDY ASSOCIATES CO.**, 2719 Chicago Rd., P. O. Box 189. Toasters, cracking and flaking rolls. Enterprise grinders, continuous samplers.

**Evanston, Ill.**—**BURROWS EQUIPMENT CO.**, 1316-7 Sherman Ave.

**Streator, Ill.**—**MYERS-SHERMAN CO.**, 1643 S. Illinois St. Hammermills, molasses mixers, vertical batch mixers.

**Cedar Falls, Iowa**—**ROSKAMP HULLER MFG. CO., INC.**, 650 Grand Blvd. Manufacturer of roller mills for soybean reduction. White-iron rolls.

**Cedar Rapids, Iowa**—**BARNARD & LEAS MFG. CO., INC.**, 1200 12th St. S.W. Roller mills; burr mills; hammermills. Heavy duty, industrial type cracking and flaking rolls.

**Cedar Rapids, Iowa**—**HAMMERMILLS INC.**, 625 C Ave. N.W. Subsidiary of Pettibone Mulliken Corp. Crushing, grinding, mixing, hashing, pulverizing and shredding equipment.

**Neola, Iowa**—**JENSEN MILLS**. Wear-sharp and self-sharpening mill hammers. Diamond efficiency.

**Bonner Springs, Kans.**—**H. C. DAVIS SONS' MILL MACHINERY CO.**, Dept. SG1. Roller mills and batch mixers.

**Wichita 4, Kans.**—**W-W GRINDER CORP.**, 2957 N. Market. Manufacturer of hammermills and roller mills.

**Boston 22, Mass.**—**STURTEVANT MILL CO.**, 103 Clayton St., Dorchester. Manufactures "Whirlwind" centrifugal air separator and rotary dustless dry batch blender.

**Port Huron, Mich.**—**BRYANT ENGINEERING CO.**, 1514 10th Ave. Hammermills.

**Minneapolis, Minn.**—**BUHLER MILL ENGINEERING CO.**, 4207 Nicollet Ave. Complete line of seed preparation equipment.

**Minneapolis, Minn.**—**R. R. HOWELL CO.**, 31st Ave. and S.E. 4th St. Mixers, feed and industrial.

**Minneapolis 14, Minn.**—**JACOBSON MACHINE WORKS**, 1094 10th Ave. S.E. Hammermills.

**Minneapolis 15, Minn.**—**SCHUTZ-O'NEILL CO.**, 307 Portland Ave. Pulverizers.

**Minneapolis 13, Minn.**—**STRONG-SCOTT MFG. CO.**, 451 Taft St. N.E. Grinders, mixers, scalpers.

**St. Paul 8, Minn.**—**PAPER-CALMENSON & CO.**, County Rd. B. and Walnut St. Pulverizing mill hammers and associated parts.

**Kansas City, Mo.**—**GENERAL MILL EQUIPMENT CO.**, 2021 Pennsylvania Ave. Concentrate and batch mixers.

**St. Louis, Mo.**—**DESIGN MFG. & EQUIPMENT CO.**, 1025 N. 6th St. Complete mixing and grinding equipment.

**St. Louis 4, Mo.**—**ESSMUELLER CO.** Mixers, horizontal batch.

**St. Louis 6, Mo.**—**GRUENDLER CRUSHER & PULVERIZER CO.**, 2915-2917 N. Market. Slow speed grinder for grinding of expeller or solvent cake. Fine grinder for fine flour, glue, plastics, chemical process and food industry.

**St. Louis 6, Mo.**—**WILLIAMS PATENT CRUSHER & PULVERIZER CO.**, 2705 N. Broadway. "Meteo" grinders.

**Omaha, Nebr.**—**EDWARD J. HECK & SONS CO.**, 1309 Leavenworth St. Manufactures hammermill screens.

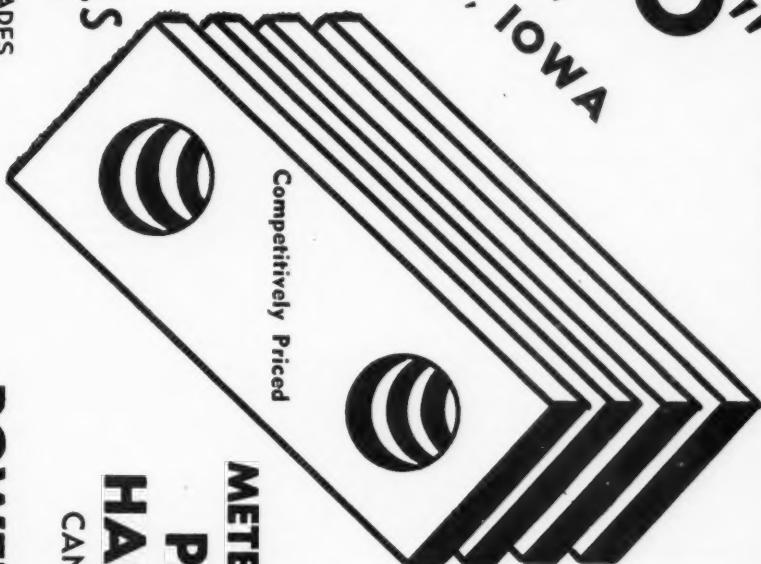
"LES-CO"  
(LESS COST)  
NEOLA, IOWA

JENSEN MILLS  
MANUFACTURERS OF  
SELF SHARPENING BLADES  
WEAR SHARP HAMMERS

METERED UNITS  
PROVE  
HAMMERS  
CAN BE A GIFT  
THRU  
POWER SAVINGS

Competitively Priced

UNIFORM GRANULATION  
INCREASED PRODUCTION  
LESS DOWN TIME  
UP TO 30% LESS  
POWER CONSUMPTION



## GRINDING AND MIXING EQUIPMENT—(Continued)

**Fort Lee, N. J.**—**BUHLER BROS., INC.**, State Highway No. 4. Machine Importer and manufacturer of cracking and flaking rolls.

**Summit, N. J.**—**PULVERIZING MACHINERY DIV.**, Metals Disintegrating Co., Inc., River and Chatham Roads. Manufacturer of "Mikro-Pulverizer" for granular or fine grinding; "Mikro-Atomizer" for ultra-fine grinding.

**Buffalo 6, N. Y.**—**SCHUTTE PULVERIZER CO., INC.**, 878 Bailey Ave. Hammermills, hammermill parts, mixers and molasses blenders.

**Rochester 11, N. Y.**—**ERDLE PERFORATING CO., INC.**, 171 York St. Perforated metals made to special order.

**Silver Creek, N. Y.**—**S. HOWES CO., INC.** Scourers, mixers.

**Utica 1, N. Y.**—**MUNSON MILL MACHINERY CO., INC.**, 210 Seward Ave. Subsidiary of Divine Bros. Co. Hammermills, attrition mills, rotary and vertical mixers, rotary knife cutters, molasses blenders, crushers, scalpers and graders.

**Cincinnati 12, Ohio**—**J. H. DAY CO.**, Division of Cleveland Automatic Machine Co., 4932 Beech St. "Day" mixers and mixer agitators.

**Columbus 16, Ohio**—**JEFFREY MFG. CO.**, 799 N. 4th St. Hammermills (swing or rigid hammer), crushers, pulverizers.

**Springfield, Ohio**—**BAUER BROS. CO.** Laboratory mills, attrition mills, hammermills, hullers, exhausters, crushers for seed cakes, feeders, breakers. Facilities for experimental projects.

**Westerville, Ohio**—**J. W. HANCE MFG. CO.** Screen material—perforated steel plates, woven wire.

**Oklahoma City 5, Okla.**—**ROSS MACHINE & MILL SUPPLY, INC.**, 12 N. E. 28th St. Roller mills, crushing mills, grinding and flaking rolls.

**Muncy, Pa.**—**SPROUT, WALDRON & CO., INC.** Complete milling equipment. Roller mills, hammermills, attrition mills, cutters, crushers; horizontal and vertical mixers.

**Pittsburgh 22, Pa.**—**BLAW-KNOX CO.**, foundry and mill machinery div. Also at E. Chicago, Ind., and Warwood, W. Va. Flaking rolls.

**Franklin, Tenn.**—**J. B. SEDBERRY, INC.** Hammermills; "Jay Bee" grinding equipment, batch and molasses mixers.

**Memphis, Tenn.**—**DABNEY-HOOVER SUPPLY CO.**, 45 W. Virginia. Hammermills and mixers.

**Mineral Wells, Tex.**—**NORWOOD MFG. CO.**, 100 Lincoln Ave. Manufactures "Texas Cyclone" vertical feed mixers and molasses or sweet feed mixers.

**Milwaukee 1, Wis.**—**ALLIS-CHALMERS MFG. CO.** Cracking and flaking rolls.

**Milwaukee 46, Wis.**—**DINGS MAGNETIC SEPARATOR CO.**, 4740 W. Electric Ave. Manufactures magnetic separators and metal detectors.

**Toronto, Ont., Canada**—**CANIMPEX**, 49 Glenview Ave. Decomatic universal hulling and decontaminating machine for hulling and processing soybeans. "Beka" impact grinding mill.

## HERBICIDES INSECTICIDES AND PESTICIDES

**Richmond, Calif.**—**CALIFORNIA SPRAY CHEMICAL CORP.**, Lucas and Ortho Way. Manufacturer and formulator of agricultural chemicals.

**Naugatuck, Conn.**—**UNITED STATES RUBBER**, Naugatuck Chemical Div. Alanap-3, Aramite-15W, Duraset-20W, MH-30, Synklor-50-W, Synklor-48E, Alanap-2.

**Evanston, Ill.**—**BURROWS EQUIPMENT CO.**, 1316-7 Sherman Ave.

**New York 7, N. Y.**—**AMERICAN AGRICULTURAL CHEMICAL CO.**, 50 Church St.

**New York 20, N. Y.**—**AMERICAN CYANAMID CO.**, agricultural div., 30 Rockefeller Plaza.

## INOCULANTS

**Chicago 32, Ill.**—**NODOGEN LABORATORIES**, 2750 W. 35th St. "Nodogen" soybean inoculation.

**Quincy, Ill.**—**KALO INOCULANT CO.** Legume inoculants "Kalo," "Uni-Culture," private brands.

**Urbana, Ill.**—**URBANA LABORATORIES**, 406 N. Lincoln. "Urbana Culture" and "Urbana Humus Inoculator" for all legume seeds.

**Columbus 12, Ohio**—**AGRICULTURAL LABORATORIES, INC.**, 1147 Chesapeake Ave. "Legume-Aid," the inoculant in the carton.

**Fort Atkinson, Wis.**—**NATIONAL AGRICULTURAL SUPPLY CO.**

**Milwaukee 9, Wis.**—**NITRAGIN CO., INC.**, 3279 W. Custer Ave. "Nitragin Seed" inoculation.

## LABORATORY EQUIPMENT

**Alhambra, Calif.**—**MOISTURE REGISTER CO.**, 1510 W. Chestnut St. Electronic moisture-testing instruments.

**Chicago 13, Ill.**—**CENTRAL SCIENTIFIC CO.**, 1700 Irving Park Rd. Branches at Boston, Tulsa, Birmingham, Houston, Mountainside, N. J., Santa Clara, Los Angeles, Toronto, Vancouver and Montreal. Instruments for laboratory testing of soybeans and derivatives.

**Chicago 6, Ill.**—**SEEDBURO EQUIPMENT CO.**, 794 Converse Blvd.

**Chicago 51, Ill.**—**WILKENS-ANDERSON CO.**, 4525 W. Division St. 6B Coleman Spectrophotometer and pH meters; dilatometry apparatus.

**Evanston, Ill.**—**BURROWS EQUIPMENT CO.**, 1316-7 Sherman Ave.

**Clifton, N. J.**—**TORSION BALANCE CO.**, 35 Monhegan St. Laboratory and analytical balances and scales used in research laboratories and production control laboratories.

**Tulsa, Okla.**—**REFINERY SUPPLY CO.**, 621-623 E. 4th St. Manufacturer and supplier of scientific equipment. "R. S." cottonseed oil sampler; A. O. C. S. official oil trier.

**Orlando, Fla.**—**ACME COPPERSMITHING & MACHINE CO.** Laboratory extractors.

## MAN-LIFTS

**San Francisco 7, Calif.**—**SHANZER MFG. CO.**, 85 Bluxome St. "Shanzer" belt-type man-lifts.

**Evanston, Ill.**—**BURROWS EQUIPMENT CO.**, 1316-7 Sherman Ave.

**Peoria, Ill.**—**PAUL J. HAGERTY EQUIPMENT CO.**, 800 S. Adams St.

**Cedar Rapids, Iowa**—**BARNARD & LEAS MFG. CO., INC.**, 1200 12th St. S.W.

**Enterprise, Kans.**—**J. B. EHRSAM & SONS MFG. CO.** Electric elevators and electric belt man-lifts.

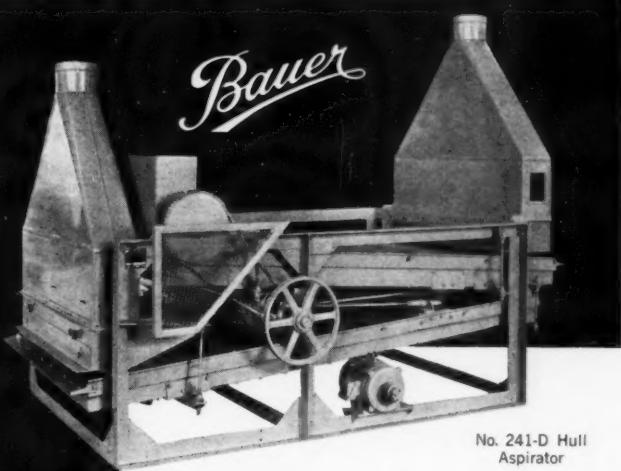
**Faribault, Minn.**—**HUMPHREY ELEVATOR CO.** "Humphrey" man-lift belt elevator.

**Minneapolis 13, Minn.**—**STRONG-SCOTT MFG. CO.**, 451 Taft St. N.E.

**Sidney, Ohio**—**SIDNEY GRAIN MACHINERY CO.**, 424 N. Main St.

**Memphis, Tenn.**—**DABNEY-HOOVER SUPPLY CO.**, 45 W. Virginia.

**Memphis, Tenn.**—**LEWIS SUPPLY CO.**, 477 S. Main St.

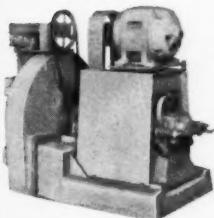


No. 241-D Hull Aspirator

### SOYBEAN HULL REMOVAL

- Double classification and aspiration
- Built-in, self-cleaning ball cage sash
- Action of reciprocating deck brings hulls to the surface for more efficient aspiration
- Specially designed for companies wishing to produce 50% protein meal

### SOYBEAN PRE-CRACKING



- Engineered to effectively pre-crack and loosen hulls
- Increases life of cracking rolls
- Increases efficiency of separating equipment

Single revolving disc attrition mill

### OTHER EQUIPMENT

Bauer supplies Specific Gravity Separators, Scalping Shakers, Cleaners, Cake Breakers, Attrition Mills, Hammer Mills and Permanent Magnetic Separators. In addition, Bauer offers solid experience in nut and seed processing and works closely with suppliers of hydraulic, continuous screw presses and solvent processes. You'll find it profitable to rely on our engineering service! Write for details.

## THE BAUER BROS. CO.

**1744 Sheridan Avenue  
Springfield, Ohio**

## MATERIAL HANDLING EQUIPMENT

Paragould, Ark.—WONDER STATE MFG. CO. Supplier of handling equipment.

Aurora, Ill.—FINCO, INC., Box 968. Sells complete line of material handling equipment.

Aurora, Ill.—STEPHENS-ADAMSON MFG. CO. Offices in all principal cities. Plants at Aurora, Los Angeles, Clarksdale, Miss., and Belleville, Ont. Engineered installations and complete standard line of bulk materials handling equipment.

Chicago 6, Ill.—SEEDBURO EQUIPMENT CO., 794 Converse Bldg.

Evanston, Ill.—BURROWS EQUIPMENT CO., 1316-7 Sherman Ave.

Cedar Rapids, Iowa—HAMMERMILLS INC., 625 C Ave. N.W. Subsidiary of Pettibone Mulliken Corp.

Beatrice, Nebr.—TOTE SYSTEM, INC., 700 S. 7th St. Affiliate of Beatrice Steel Tank Mfg. Co. "Tote System" bulk material handling equipment.

Belleville 9, N.J.—WALLACE & TIERNAN INC., 25 Main St. "Merchen" belt-type gravimetric scale feeders and meters for blending, inventory records, process yield records, quality control, bulk loading and unloading. Feeders adaptable for either continuous or batch operations.

Greensboro, N.C.—GENERAL METALS INC., 858 Goldsboro St.

Columbus 16, Ohio—JEFFREY MFG. CO., 799 N. 4th St.

Muncy, Pa.—SPROUT, WALDRON & CO., INC. Mechanical and pneumatic conveying systems; airlock feeders; rotary vane feeder valves; stream splitters.

Memphis, Tenn.—LEWIS SUPPLY CO., 477 S. Main St.

## MATERIAL LEVEL INDICATORS

Detroit 15, Mich.—BIN-DICATOR CO., 13946 Kercheval Ave. "Bin-Dicator."

Pittsburgh 26, Pa.—CONVAIR, P. O. Box 9671. Plant at 1059 Bay Ridge Ave. Equipment design and manufacturing.

## MISCELLANEOUS EQUIPMENT

Denver 17, Colo.—GATES RUBBER CO., 999 S. Broadway. Industrial hose, rubber-faced steel plate.

Chicago 5, Ill.—CRANE CO., 836 S. Michigan Ave. Complete line of valves, fittings, steam specialties, fabricated piping.

Chicago 50, Ill.—PRATER PULVERIZER CO., 1517-49 S. 55th Court. Rotary airlocks, permanent magnets.

Chicago 47, Ill.—SIGNODE STEEL STRAPPING CO., 2600 N. Western Ave., Dept. 113 SBB. Grain doors, retaining doors, retaining strips, strapping and accessories.

Evanston, Ill.—BURROWS EQUIPMENT CO., 1316-7 Sherman Ave.

Peoria, Ill.—PAUL J. HAGERTY EQUIPMENT CO., 800 S. Adams St. Spout magnets, wire rope and accessories.

Indianapolis 25, Ind.—INDIANAPOLIS MACHINERY CO., INC., 1959 S. Meridian St. Complete stock of abrasion resisting steel sheets and plates.

Cedar Rapids, Iowa—DIVINE ENGINEERING INC., Hwy. 218 S. W., P. O. Box 1670. Supplier.

Minneapolis, Minn.—R. R. HOWELL CO., 31st Ave. and S.E. 4th St. Magnets, head drives, motors.

Minneapolis 14, Minn.—JACOBSON MACHINE WORKS, 1094 10th Ave. S.E. Magnetic equipment.

St. Paul 8, Minn.—PAPER-CALMENSON & CO., County Rd. B. and Walnut St. Steel warehouse and fabricating.

St. Louis 12, Mo.—GEORGE P. DORRIS CO., INC., 6108 Clemens Ave. Shaft-mounted and base-type speed reducers.

Omaha 2, Nebr.—EATON METAL PRODUCTS CORP., 1301 Willis Ave. Also at Hutchinson, Kans. Fabricator of plate and sheet steel products.

Omaha, Nebr.—EDWARD J. HECK & SONS CO., 1309 Leavenworth St. Manufactures sputting, etc., applicable to soybean plants.

Harrison, N.J.—WORTHINGTON CORP., 421 Worthington Ave. Refrigeration equipment, air and gas compressors, multi-V-drives, V-belts, drainage pumps, steam turbines, power plant equipment.

Brooklyn 8, N.Y.—INDUSTRIAL MARKING EQUIPMENT CO. INC., 655 Berriman St. Designs and manufactures conveyor line markers, printers for case numbering or dating, carton printers, multiwall bag printers, printing attachments for packaging machines.

Cleveland 7, Ohio—MARTINDALE ELECTRIC CO., 1327 Hird Ave. Manufactures industrial tools, supplies and safety equipment. Protective dust mask.

Springfield, Ohio—ROBBINS & MYERS, INC., 1345 Lagona Ave. Also plants at Memphis, and Brantford, Ont. Hoists and cranes; motors—totally-enclosed, explosion-proof, all-weather polyphase.

Westerville, Ohio—J. W. HANCE MFG. CO. Grain valves and fittings, turn-heads, swivel spouts, 2 and 3-way valves and fittings, flexible grain pipe.

Carnegie, Pa.—RED JACKET CO., INC., 500 Bell Ave. Manufactures rubber valves for handling solids or bulk material.

Hatboro, Pa.—FISCHER & PORTER CO., 225 Warminster Rd. Complete process control instrumentation; chlorination equipment; water treatment systems; data reduction and automation systems; centralized control systems; industrial glass products.

Lancaster, Pa.—KEENER TAG MFG. CO., 427 W. Lemon St. Paper, cloth and fiber tag manufacturer. Shipping, production, informative and analysis tags.

Orland, Pa.—ACME COPPERSMITHING & MACHINE CO. "Acme" multi-jet barometric condensers.

Memphis, Tenn.—DABNEY-HOOVER SUPPLY CO., 45 W. Virginia. Magnets, electric motors, gear reducers, sputting.

Memphis, Tenn.—J. E. DILWORTH CO., 730 S. 3rd, P. O. Box 2834. Also in Jackson, Miss., and Birmingham, Ala. Industrial supply distributor of motors, reducers, electric controls and instruments; heavy hardware, pipe, valves and fittings.

Memphis, Tenn.—LEWIS SUPPLY CO., 477 S. Main St. Steel warehouse and equipment and supplies for the grain industry.

Dallas, Tex.—BRIGGS-WEAVER MACHINERY CO., 5000 Harry Hines Blvd. Also at Fort Worth, Houston, and Beaumont. Distributor of industrial machinery and supplies.

Milwaukee, Wis.—ALLIS-CHALMERS MFG. CO. Motors, motor control drives, V-belts.

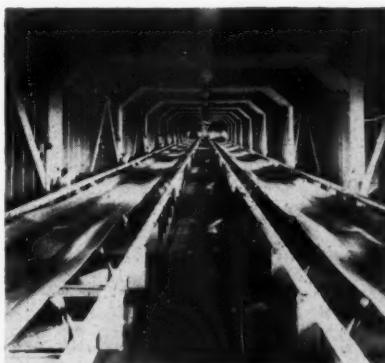
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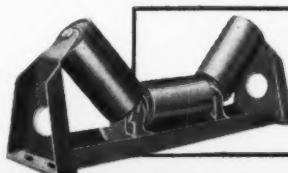
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Bristol, Pa.—PATERSON PARCHMENT PAPER CO. Also plant at 1400 Kifer Rd., Sunnyvale, Calif. Branch offices in New York and Chicago. Manufacturer of genuine vegetable parchment. Plain and printed, rolls or sheets, for margarine, shortening and other products.

## PELLET MACHINES

Los Angeles 58, Calif. — SOUTHWESTERN ENGINEERING CO., 4800 Santa Fe Ave. Grain or pellet sizing equipment.

San Francisco 3, Calif.—CALIFORNIA PELLET MILL CO., 1800 Folsom St. Also at Crawfordsville, Ind.; North Kansas City 16, Mo.

Minneapolis 13, Minn.—STRONG-SCOTT MFG. CO., 451 Taft St. N.E. Pellet mills.

Muncy, Pa.—SPROUT, WALDRON & CO., INC. Super Ace, Pellet Ace, and Junior Ace pellet mills; Coolaire and Rotaircool coolers and driers; crumbles rolls; cleaning and grading shoes.

## POWER TRANSMISSION EQUIPMENT

Birmingham, Ala. — CONTINENTAL GIN CO., industrial div. Offices at Atlanta, Dallas, Mobile, Memphis, San Francisco, Chicago, Huntington, W. Va., and New York.

Aurora, Ill.—STEPHENS-ADAMSON MFG. CO. Offices in all principal cities. Plants at Aurora, Los Angeles, Clarksdale, Miss., and Belleville, Ont. Engineered installations and complete standard line of bulk materials handling equipment.

Chicago 1, Ill.—LINK-BELT CO., Dept. SBB-59, Prudential Plaza. Also at Indianapolis, Philadelphia and Colmar, Pa., Atlanta, Houston, Minneapolis, San Francisco, Los Angeles, Seattle, Toronto. Chains, sprockets, bearings, couplings, speed reducers, gearmotors, variable speed drives, backstops, V-belt and chain drives, etc.

Evanston, Ill. — BURROWS EQUIPMENT CO., 1316-7 Sherman Ave.

Peoria, Ill.—PAUL J. HAGERTY EQUIPMENT CO., 800 S. Adams St. Roller chain and sprockets; motors and controls; moto-reducers; pulleys, bearings; takeups.

Mishawaka, Ind.—DODGE MFG. CORP. "Flexidyne" dry-fluid drives and couplings; Dodge "Para-flex" flexible cushion couplings; "Taper-Lock" bushed V-belt sheaves, sprockets, couplings (flexible, rigid and chain) and steel conveyor pulleys; "Torque-Arm" speed reducers; shaft collars; takeups; variable speed drives; Dodge roller bearing pillow blocks, "Sphere-Align" spherical roller bearing pillow blocks; SC and SCM ball bearing pillow blocks; split steel transmission pulleys; roller chain; mechanical clutches.

Cedar Rapids, Iowa — DIVINE ENGINEERING INC., Hwy. 218 S. W., P. O. Box 1670. Supplier of motors, flexible couplings, speed reducers, sprockets, pulleys, bearings, takeups.

Enterprise, Kans.—J. B. EHRSAM & SONS MFG. CO. Power transmission equipment including pulleys, gears, plain and anti-friction bearings, shafting, clutches, sprockets, pillow blocks, V-belt sheaves, flexible and rigid couplings.

Minneapolis, Minn.—R. R. HOWELL CO., 31st Ave. and S.E. 4th St. Power transmission.

Minneapolis 13, Minn.—STRONG-SCOTT MFG. CO., 451 Taft St. N.E. V-belt drives.

St. Louis, Mo.—DESIGN MFG. & EQUIPMENT CO., 1025 N. 6th St. Motors, V-belts, sheaves, roller chain and sprockets, bearings.

Columbus 16, Ohio—JEFFREY MFG. CO., 799 N. 4th St.

Oklahoma City, Okla.—SOUTHWESTERN SUPPLY & MACHINE WORKS, 6 E. Chickasaw St.

Muncy, Pa.—SPROUT, WALDRON & CO., INC. Cast iron pulleys; belt saver pulleys.

Philadelphia 34, Pa.—PHILADELPHIA GEAR WORKS, INC., G St. below Erie Ave. Also operates Virginia Gear & Machine Co., Lynchburg, Va. All types of power transmission equipment including gears, speed reducers, valve controls, gear-motors, couplings, fluid mixers.

Philadelphia 32, Pa.—SKF INDUSTRIES, INC., Front St. and Erie Ave. Other plants at Hornell, N. Y.; Shippensburg and Altoona, Pa. Manufactures ball and roller bearings; pillow blocks; steel, stainless and bronze balls; Tyson tapered roller bearings.

Memphis, Tenn. — DABNEY-HOOVER SUPPLY CO., 45 W. Virginia.

Memphis, Tenn.—LEWIS SUPPLY CO., 477 S. Main St. Distribution of industrial supplies.

Menomonie Falls, Wis.—GRAHAM TRANSMISSIONS INC. Affiliate of Dostal & Lowey Co. Variable speed transmissions.

## PUMPS

Fresno, Calif.—VALLEY FOUNDRY & MACHINE WORKS, INC., 2510 S. East Ave. Pumps—centrifugal and rotary in stainless steel and bronze.

Rockford, Ill.—ROPER HYDRAULICS, INC., 508 Blackhawk Park Ave. Rotary (gear-type) positive displacement pumps for transfer of soybean oil.

Cedar Falls, Iowa—VIKING PUMP CO. Rotary pumps for handling soybean oils and solvents.

Warren, Mass.—WARREN PUMPS, INC., 572 Bridges Ave. Centrifugal, reciprocating and rotary pumps.

Grand Rapids 9, Mich.—BLACKMER PUMP CO., INC. Rotary power pumps, rotary hand pumps. Piston hand pumps.

Minneapolis 13, Minn.—JEROME SIMER CO., 422 Stinson Blvd. Paddle pumps, bronze or stainless steel, self-priming, oil or chemical transfer pumps.

Brooklyn 1, N. Y.—FOSTER PUMP WORKS, INC., 51-A Washington St. Soybean oil pumps, solvent pumps, foot pumps used in deodorizing, hydrogenating and fractionating processes.

Springfield, Ohio—ROBBINS & MYERS, INC., 1345 Lagonda Ave. Also plants at Memphis, and Brantford, Ont. Moyco "Progressive Cavity" pump.

Memphis, Tenn. — DABNEY-HOOVER SUPPLY CO., 45 W. Virginia.

Memphis, Tenn.—LEWIS SUPPLY CO., 477 S. Main St.

## RESPIRATORS

Chicago 6, Ill.—SEEDBURO EQUIPMENT CO., 794 Converse Bldg.

Evanston, Ill. — BURROWS EQUIPMENT CO., 1316-7 Sherman Ave.

## SEED PROTECTANTS

Richmond, Calif.—CALIFORNIA SPRAY-CHEMICAL CORP., Lucas and Ortho Way. Manufacturer and formulator of agricultural chemicals. "Ortho" soybean seed protectant.

Naugatuck, Conn.—UNITED STATES RUBBER, Naugatuck Chemical Div. Phygon Seed Protectant, Phygon Naugets, Sperton, Sperton-SL, Sperton-DDT, Sperton-DDT-SL, Thiram-75W, Thiram 50 Dust.

Wilmington, Del.—E. I. du PONT de NEMOURS & CO., INC., Grasselli chemicals dept. Du Pont seed disinfectants.

Des Moines 9, Iowa—CORN STATES HYBRID SERVICE, 803 Keo Way.

Westerville, Ohio—J. W. HANCE MFG. CO. Seed treating equipment. (Fungus diseases.)

## SIFTERS

**Chicago 50, Ill.**—B. F. GUMP CO., 1309 S. Cicero Ave.

**Fort Scott, Kans.**—NOR-VELL, INC., 402 E. 20th.

**Minneapolis 15, Minn.**—SCHUTZ-O'NEILL CO., 307 Portland Ave.

**Silver Creek, N. Y.**—S. HOWES CO., INC.

**Cincinnati 12, Ohio**—J. H. DAY CO., Division of Cleveland Automatic Machine Co., 4932 Beech St. "Day" sifters and "Day Roball" gyrating sifters.

**Cincinnati 23, Ohio**—ORVILLE SIMPSON CO., 1236 Knowlton St. "Rotex" screeners.

**Muncy, Pa.**—SPROUT, WALDRON & CO., INC. "Gyro-Whip" sifters; Gyro-shakers; graders.

## SOIL TESTING

**Arlington, Calif.**—T. W. PROSSER CO., P. O. Box 515. Manufactures "Irrrometer" soil-moisture indicator.

**Milpitas, Calif.**—W. R. AMES CO., 1001 Dempsey Road. Manufactures "Irrigate" soil moisture measuring equipment for use in controlling irrigation.

**Urbana, Ill.**—URBANA LABORATORIES, 406 N. Lincoln. Materials and supplies for testing soils for deficiencies in lime, phosphorus, potassium and nitrogen. Plant tissue tests for nitrogen, phosphates and potash.

**Cedar Grove, N. J.**—INDUSTRIAL INSTRUMENTS, INC., 89 Commerce Road. Manufactures soil moisture testing equipment and soil salinity and soil fertilizer testing equipment.

**Fort Atkinson, Wis.**—NATIONAL AGRICULTURAL SUPPLY CO. Soil testers and samplers; disease specimens and exhibits.

## SOYBEAN STORAGE ELEVATOR, PROCESSOR UNITS

**Anniston, Ala.**—KILBY STEEL CO., P. O. Box 1489. Storage bins.

**Paragould, Ark.**—WONDER STATE MFG CO. Supplier of bins, tanks and storage facilities. "Armc" grain storage buildings.

**Chicago 2, Ill.**—WONDER BUILDING CORP. OF AMERICA, 30 N. LaSalle St. Manufacturing and sale of pre-engineered trussless steel buildings for storage, processing and manufacturing.

**Kankakee, Ill.**—A. O. SMITH CORP., P. O. Box 28. "Permaglas" storage structures—mechanical sweep arm bottom unloader.

**Maroa, Ill.**—J. E. REESER CO. Concrete storage bins.

**Indianapolis, Ind.**—HOOSIER TARPAULIN & CANVAS GOODS CO., INC., grain div., 1302 W. Washington St. Moisture proof and rodent proof coated nylon tarpaulins for temporary storage.

**Des Moines 9, Iowa**—CORN STATES HYBRID SERVICE, 803 Keo Way.

**Minneapolis 13, Minn.**—DAY CO., 810 3rd Ave. N.E. Bulk storage bins.

**Minneapolis, Minn.**—HOGENSON CONSTRUCTION CO., 722 Flour Exch. Designer and builder of soybean storage and processing plants.

**Kansas City 26, Mo.**—BLACK, SIVALLS & BRYSON, INC., 7500 E. 12th. Flat steel and corrugated grain tanks.

From original design to final operation,  
Crown solvent extraction plants give you more



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## SOYBEAN STORAGE (Continued)

**Kansas City 26, Mo.**—BUTLER MFG. CO., 7400 E. 13th St. Square and round bolted steel storage tanks.

**Kansas City, Mo.**—COLUMBIAN STEEL TANK CO., P. O. Box 4048-U. Bolted steel grain elevator tanks.

**Kansas City, Mo.**—MIDWEST STEEL PRODUCTS CO., Railway Exch. Bldg. Bolted storage, elevator-type bins.

**Sikeston, Mo.**—R. CLINTON CONSTRUCTION CO., Hwy. 60 West. Design and construction of soybean elevators.

**Omaha 2, Nebr.**—EATON METAL PRODUCTS CORP., 1301 Willis Ave. Also Kansas div. at Hutchinson. Special bean and oil storage tanks for processing plant.

**Omaha, Nebr.**—TILLOTSON CONTRACTING CO., Box 613. Mill and elevator construction.

**Camden, Ohio**—NEFF & FRY CO. Concrete stave bins.

**Marietta, Ohio**—MARIETTA CONCRETE CORP., Box 356, Westview. Also Race Road and Pulaski Highway, Baltimore, Md.; Box 2268, Hollywood, Fla.; 411 Foster St., Nashville, Tenn.; Box 237, Falconer, N. Y.; Box 5192, Charlotte, N. C. Grain tanks, "Air-Cell" reinforced concrete stave grain tanks.

**Massillon, Ohio**—MICHIGAN SILO CO., Cherry Rd. N.W. Affiliate of Concrete Silo Co., Bloomfield, Ind. Concrete stave storage bins.

**Springfield, Ohio**—ROSS EQUIPMENT CO., 1200 Warder St. Affiliate of William Bayley Co. Bolted steel grain storage tanks, hopper bottoms, metal fabrication.

**Muskogee, Okla.**—MUSKOGEE IRON WORKS, P. O. Box 1547. All steel self-filling storage buildings designed, fabricated and erected for soybean, cottonseed, peanut and grain storage.

**Tulsa, Okla.**—NATIONAL TANK CO., Drawer 1710. Bolted steel tanks.

**Muncy, Pa.**—SPROUT, WALDRON & CO., INC. Various types of storage tanks for soybean oil meal storage.

**Memphis, Tenn.**—DABNEY-HOOVER SUPPLY CO., 45 W. Virginia. Steel grain tanks.

**Memphis, Tenn.**—J. E. DILWORTH CO., 730 S. 3rd, P. O. Box 2834. Also plant at Jackson, Miss., and Birmingham, Ala. Storage bins.

**Memphis 12, Tenn.**—MEMPHIS CONCRETE SILO CO., 2677 Princeton Ave.

### FARM UNITS

**Evanston, Ill.**—BURROWS EQUIPMENT CO., 1316-7 Sherman Ave. Storage bins.

**Kankakee, Ill.**—A. O. SMITH CORP., P. O. Box 28. "Harvestore," sealed, oxygen-free storage.

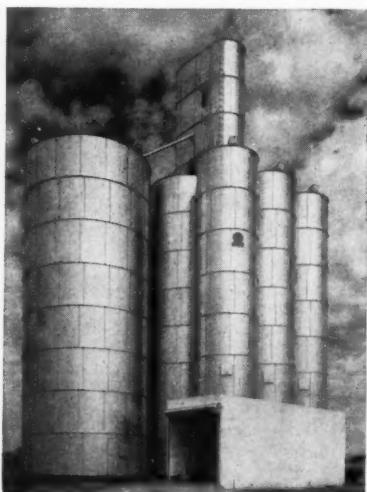
**Indianapolis, Ind.**—HOOSIER TARPAULIN & CANVAS GOODS CO., INC., grain div., 1302 W. Washington St. Moisture proof and rodent proof coated nylon tarpaulins for temporary storage.

**Middlebury, Ind.**—PIONEER MANUFACTURING CO. Manufactures corrugated steel bins for storage of soybeans and other small grains.

**Onawa, Iowa**—GREEN GABLE DIVISION, Honegers & Co., Inc. Prefabricated wooden grain bins.

**Detroit 29, Mich.**—STRAN-STEEL CORP. All-steel quonset and rigid-frame grain-drying storage units equipped with electric fan and ducts system to dry high moisture soybeans with natural unheated air; reversible fans for aeration of storage.

**Minneapolis 1, Minn.**—LINDSAY BROS. CO., 400 N. 1st St. Also at Des Moines, Omaha, Sioux Falls, Fargo and Mankato. Wholesale distributor, "Lindsay Husky Giant" grain bins.



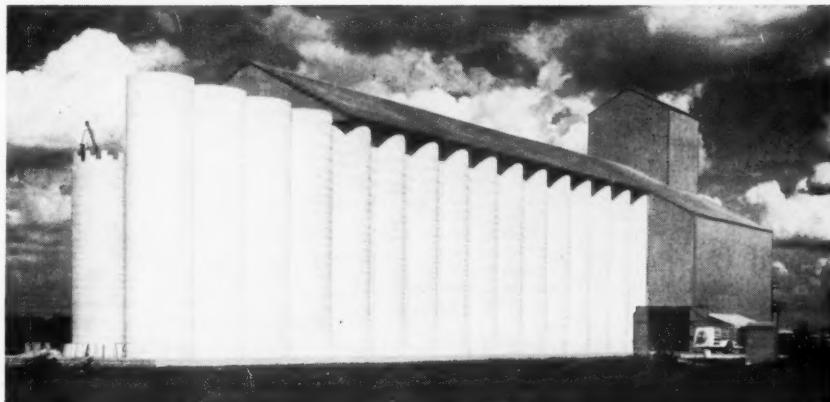
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**COLUMBIAN STEEL TANK COMPANY**  
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**Manufacturers and  
Construction Contractors  
Of Concrete Stave  
Storage Structures**



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Throughout the South and Southwest we have built more concrete stave storage structures than any other firm in our field. And for the past 10 years, 40-percent of our annual business has come from those who already own one or more of our structures. Such satisfaction in our service is probably unmatched in the field of grain bins construction. From the moment we undertake a new job until the final stave is in place, the responsibility of quality in

materials and dependable workmanship is squarely upon our shoulders. Let us figure on your storage requirements. We can save you up to 20-percent on the cost as compared to other types of construction and materials. Furthermore, the finished bins will more than fulfill ALL REQUIREMENTS for the safe and economical storage of beans.

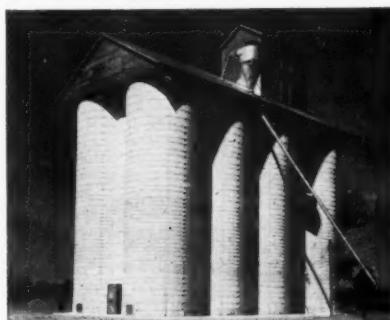
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**or TEXAS CONCRETE SILO CO.  
Eagle Lake, Texas**

SOYBEAN BLUE BOOK



## SOYBEAN STORAGE—

(Continued)

**Kansas City 26, Mo.**—**BLACK, SIVALLS & BRYSON, INC.**, 7500 E. 12th. Bolted steel grain storage tanks, "Perfection" grain storage bins, bulk feed bins and grain drying equipment.

**Kansas City 26, Mo.**—**BUTLER MFG. CO.**, 7400 E. 13th St. Farm grain bins, drying and aeration equipment.

**Kansas City, Mo.**—**COLUMBIAN STEEL TANK CO.**, P. O. Box 4048-U. Steel grain bins for farm storage.

**Kansas City, Mo.**—**MIDWEST STEEL PRODUCTS CO.**, Railway Exch. Bldg. Grain storage bins.

**Omaha 2, Nebr.**—**EATON METAL PRODUCTS CORP.**, 1301 Willis Ave. Also Kansas div., Hutchinson, Kans. Steel grain bins for farm storage.

**Mansfield, Ohio**—**MARTIN STEEL PRODUCTS CORP.**, Longview Ave. Steel bolted grain tanks, grain bins, silos, haymakers, drying bins, corn cribs, utility and machinery buildings.

**Sioux Falls, S. Dak.**—**SIOUX STEEL CO.** "Sioux" steel grain bins and "Sioux" steel buildings.

**Memphis 12, Tenn.**—**MEMPHIS CONCRETE SILO CO.**, 2677 Princeton Ave. Heavy duty grain bins.

**Memphis, Tenn.**—**PIDGEON-TOMAS IRON CO.**, E. H. Crump Blvd. and S. Main St. Steel fabricating, bins, tanks, structures.

## SPRAYING EQUIPMENT

**Aurora, Ill.**—**FINCO, INC.**, Box 968. Spraying equipment. Self-propelled high-clearance sprayers.

**Bellwood, Ill.**—**SPRAYING SYSTEMS, CO.**, 3201 Randolph St. "Teejet" nozzles and accessories for spraying of herbicides, insecticides, defoliants and liquid fertilizers.

**Chicago 6, Ill.**—**SEEDBURO EQUIPMENT CO.**, 794 Converse Bldg.

**Cedar Rapids, Iowa**—**CENTURY ENGINEERING CORP.**, 401 3rd St. Farm sprayers.

**Pella, Iowa**—**VERMEER MFG. CO.** Manufactures irrigation sprinklers and pump drives.

**Waterloo, Iowa**—**DOBBINS DIVISION, Chamberlain Corp.** Hand and power agricultural sprayers and dusters.

**Neodesha, Kans.**—**AIROSPRAYER CO.**, P. O. Box 269. Manufacturer of power and hand "Airo-sprayer."

**Detroit 11, Mich.**—**CHAMPION SPRAYER CO.**, 6509 Heintz Ave. "Champion" sprayers and dusters for applying insecticides and fungicides for weed and insect control and defoliants. Parts and accessories.

**Dakota City, Nebr.**—**THE BROYHILL CO.** Field sprayers for applying herbicides, insecticides, fungicides and liquid fertilizer. Planter, cultivator, tractor, trailer and jeep attached types—pre-emergence or post-emergence; sub-surface fertilizer injectors; farm wagon hoists; aluminum, steel and rubber-lined tanks.

**Greensboro, N. C.**—**GENERAL METALS INC.**, 858 Goldsboro St.

**Ashland, Ohio**—**F. E. MYERS & BRO. CO.** Complete line of engine-driven and power take-off trailer-type power sprayers. Front and rear mounted tractor sprayers. Row crop concentrate sprayers and attachments.

**Cleveland 13, Ohio**—**ENGINE PARTS MFG. CO.**, 1360 W. 9th St. Boom sprayers for tractor and trailer; hand-type "Yellow Devil" sprayers; "En-parco" nylon roller pumps. Pre-emergence sprayers. Hi-clearance self-propelled sprayers.

**York, Pa.**—**OLIVER CORP.**, 142 N. Duke St. "Iron Age" row crop and weed sprayers.

## THERMOMETERS

**Atlanta 1, Ga.**—**A. A. WOOD & SONS CO.**, 436 Magnolia St. N.W. Manufactures thermometers used in checking heat of stored or piled beans and meal.

**Chicago 6, Ill.**—**ZELENY THERMOMETER SYSTEM**, 612-614 W. Monroe St. Thermometer system for taking temperature of soybeans or grains in storage.

**Skokie 60, Ill.**—**POWERS REGULATOR CO.**, 3400 Oakton St. Temperature and humidity control systems for processing and space conditioning.

**Des Moines 9, Iowa**—**HOT SPOT DETECTOR, INC.**, 214 3rd St. Manufactures and installs "Hot Spot-Zeleny" detector systems for measuring temperatures in grain storage bins, including portable and electronic units, automatic scanning and automatic recording measuring systems. Also completely engineered aeration systems, including portable and permanent installations for flat and upright storage.

**St. Paul 1, Minn.**—**PTC CABLE CO.**, 200 Anchor Bldg. Electronic temperature indicating equipment. For all soybeans, grains, cottonseed, etc., all types and sizes storage areas. Custom-engineered for maximum protection at minimum cost against losses due to moisture and insects.

**Memphis, Tenn.**—**LEWIS SUPPLY CO.**, 477 S. Main St.

## TRANSPORTATION EQUIPMENT

**Chicago 90, Ill.**—**GENERAL AMERICAN TRANSPORTATION CORP.**, 135 S. La Salle St. "Airlslide" cars designed for transportation of dry, granular or powdered commodities.

**Chicago 4, Ill.**—**KEITH RAILWAY EQUIPMENT CO.** (Keith Tank Line), 332 S. Michigan Ave. Also 681 Market St., San Francisco, and Longview, Tex. Owner and operator of tank cars to transport soybean oil.

**Detroit 23, Mich.**—**TRUEHAUF TRAILER CO.**, 10940 Harper Ave. Plants at Fresno and Los Angeles; Fort Wayne, Ind.; Cedar Rapids, Iowa; Westfield, Mass.; Omaha, Nebr.; Avon Lake and Delphos, Ohio; Philadelphia, Pa.; Memphis, Tenn.; Fort Worth, Tex.; Toronto. Volume vans, bulk commodity tanks, grain and soybean haulers.

## TRUCK LIFTS

**Aurora, Ill.**—**FINCO, INC.**, Box 968. Wagon and truck hoists.

**Chicago 6, Ill.**—**SEEDBURO EQUIPMENT CO.**, 794 Converse Bldg.

**Evanston, Ill.**—**BURROWS EQUIPMENT CO.**, 1316-7 Sherman Ave.

**Peoria, Ill.**—**PAUL J. HAGERTY EQUIPMENT CO.**, 800 S. Adams St.

**Hammond, Ind.**—**SCREW CONVEYOR CORP.**, 757 Hoffman St. "Kewanee" hydraulic truck dumpers and overhead lifts.

**Hull, Iowa**—**KOOIKER MFG. CO.** Twin and single cylinder hoists.

**Enterprise, Kans.**—**J. B. EHRSAM & SONS MFG. CO.** Truck hoists; semi-trailer platform dumps.

**Minneapolis 13, Minn.**—**AIR-O-FLEX EQUIPMENT CO., INC.**, 3030 E. Hennepin Ave. Manufactures a complete line of pneumatically and hydraulically powered truck lifts and grain dumpers for country and terminal elevators.

**Minneapolis, Minn.**—**R. R. HOWELL CO.**, 31st Ave. and S.E. 4th St. Truck dumps.

## TRUCK LIFTS—(Continued)

**Kansas City, Mo.**—GENERAL MILL EQUIPMENT CO., 2021 Pennsylvania Ave.

**Omaha, Nebr.**—BENDER HOIST MFG. CO., 4103 S. 67th St. Manufacturer of "Bender" overhead electric truck lift and elevator equipment.

**Sidney, Ohio**—SIDNEY GRAIN MACHINERY CO., 424 N. Main St. Truck dumps.

**Memphis, Tenn.**—DABNEY-HOOVER SUPPLY CO., 45 W. Virginia.

**Memphis, Tenn.**—LEWIS SUPPLY CO., 477 S. Main St.

## UNLOADERS

**Little Rock, Ark.**—HUBERT PHELPS MACHINERY CO., 1700 E. 9th St. Pneumatic unloaders for trucks or boxcars.

**Chicago 1, Ill.**—LINK-BELT CO., Dept. SBB-59, Prudential Plaza. Also at Indianapolis, Philadelphia and Colmar, Pa., Atlanta, Houston, Minneapolis, San Francisco, Los Angeles, Seattle, Toronto. R. R. car unloaders and hydraulic truck dumpers for handling soybeans, grain, etc.

**Evanston, Ill.**—BURROWS EQUIPMENT CO., 1316-7 Sherman Ave.

**Adel, Iowa**—STRAIGHT ENGINEERING CO. Hydraulic bulk boxcar unloader; drier paddles.

**Pella, Iowa**—BUERKENS CORP., P. O. Box 158. Manufactures hydraulic unloaders, false end gate type.

**Memphis, Tenn.**—LEWIS SUPPLY CO., 477 S. Main St.

## WATERPROOFING

**Des Moines 9, Iowa**—TUFCRETE CO., INC., 519 Teachout Bldg. "Tuftite" for below grade, from inside of building; "Tufseal" above grade, from outside of building.

**Hutchinson, Kans.**—SUPPLY SERVICE, INC., 528 S. Main St. "Binkote," developed especially for grain elevators.

## WEIGHING AND PACKAGING EQUIPMENT

**Aurora, Ill.**—FINCO, INC., Box 968. Automatic baggers.

**Chicago 50, Ill.**—B. F. GUMP CO., 1309 S. Cicero Ave. Automatic weighers.

**Chicago 6, Ill.**—SEEDBURO EQUIPMENT CO., 794 Convere Bldg. Scales.

**Chicago 3, Ill.**—SUTTLE EQUIPMENT CORP., 135 S. LaSalle St. Plant at Lawrenceville. Manufacturer of bagging scales.

**Evanston, Ill.**—BURROWS EQUIPMENT CO., 1316-7 Sherman Ave.

**Hoppeston, Ill.**—FOOD MACHINERY & CHEMICAL CORP., canning machinery div. Labelers, boxes and filling machines—liquid, oil, viscous.

**Terre Haute, Ind.**—WINSLOW GOVERNMENT STANDARD SCALE WORKS, INC., 25th and Hawthorne Ave. Motor truck scales, platform type; floor type or warehouse scales; grain hopper scales; batching scales. Beam or dial equipment.

**Cedar Rapids, Iowa**—BARNARD & LEAS MFG. CO., INC., 1200 12th St. S.W. All electric and line-shaft driven auger packers.

**Pembroke, Mass.**—THAYER SCALE CORP. Manufactures packaging scales, process scales, checkweighers, batchers, continuous weighing feeders.

**Quincy 71, Mass.**—PNEUMATIC SCALE CORP., LTD., 65 Newport Ave. Automatic packaging and bottling machinery.

**Minneapolis, Minn.**—R. R. HOWELL CO., 31st Ave. and S.E. 4th St. Scales.

**Clifton, N. J.**—RICHARDSON SCALE CO., 668 Van Houton Ave. Automatic weighing, sacking and proportioning equipment.

**Brooklyn, N. Y.**—DETECTO SCALES, INC., 540 Park Ave. Manufactures retail store and industrial scales.

**Buffalo, N. Y.**—BUFFALO SCALE CO., INC., 46 Letchworth St. Manufactures industrial scales; automatic batching scales.

**New York 13, N. Y.**—AUTOMATIC SCALE CO., INC., 180 Lafayette St. Also Hanncon Machine Co. Automatic weighing and bagging machinery.

**New York 17, N. Y.**—INTERNATIONAL PAPER CO., bagpak div., 220 E. 42nd St. Plants at Camden, Ark., Mobile, Ala., and Bastrop, La. Bag filling, weighing and closing machinery.

**New York 17, N. Y.**—ST. REGIS PAPER CO., 150 E. 42nd St. Offices in principal cities. Bag filling equipment and bagging scales.

**Silver Creek, N. Y.**—S. HOWES CO., INC. Bagging scales and weighers.

**Cincinnati, Ohio**—KARL KIEFER MACHINE CO., 919 Martin St. Equipment for cleaning, filling, closing, and conveying containers used in packaging of liquid and viscous materials. Aerosol charging machines. Lid dispensers and sealers for friction top cans.

**Columbus 7, Ohio**—BONDED SCALE & MACHINE CO., 74 Bellevue Ave. Motor truck and industrial scales, stationary and portable models.

**Sidney, Ohio**—SIDNEY GRAIN MACHINERY CO., 424 N. Main St. Scales.

**Rutland, Vt.**—HOWE SCALE CO., INC. Scales.

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**Fresno, Calif.**—VALLEY FOUNDRY & MACHINE WORKS, INC., 2510 S. East Ave. Filter presses.

**Los Angeles 17, Calif.**—DICALITE DEPARTMENT, Great Lakes Carbon Corp., 612 S. Flower St. Other offices at 333 N. Michigan Ave., Chicago 1, Ill.; 18 E. 48th St., New York 17, N. Y. Manufactures diatomaceous earth filter aids for filtration of soybean oil or any other liquids or liquor concerned in processing soy products.

**Los Angeles 23, Calif.**—FILTROL CORP., 3250 E. Washington Blvd. Plants at Vernon, Calif.; Jackson, Miss.; Salt Lake City, Utah. Activated adsorbents, decolorizing adsorbents, desiccants, activated bleaching clays, activated bleaching earths. Alumina for dehydration.

**Stamford, Conn.**—DORR-OLIVER INC. Continuous vacuum and pressure filters.

**Wilmington, Del.**—ATLAS POWDER CO. "Darco" activated carbons, "Atlas Powder Co." purifying by physical adsorption.

**Chicago 16, Ill.**—FILPACO INDUSTRIES, INC., 2421 S. Michigan Ave. Filters, filter presses.

**Chicago 16, Ill.**—FILTER PAPER CO., 2421 S. Michigan Ave. Filter cloths and bags, filter papers, asbestos pads, filter aids.

**Chicago 15, Ill.**—WURSTER & SANGER, INC., 1337 E. 52nd St. Bleaching installations.

**East Moline, Ill.**—NIAGARA FILTERS DIV., American Machine & Metals, Inc. Filters; filter papers, cloths; filter presses.

**Louisville 1, Ky.**—GIRDLER PROCESS EQUIPMENT DIV. Continuous vacuum bleaching plants.

**Vicksburg, Mich.**—RONNINGEN-PETTER CO., 2700 E. YZ Ave. Fluid filters and strainers for clarification of soybean oils.

**Berlin, N. H.**—BROWN CO., 650 Main St. Manufactures "Solka-Floc" a highly purified wood cellulose—an efficient filter aid.

**Keene, N. H.**—CARL SCHLEICHER & SCHUELL CO., 543 Washington St. Manufacturer of analytical and industrial filter papers in many grades and sizes to fit all filter presses.

**Harrison, N. J.**—T. SHRIVER & CO., INC., 882 Hamilton St. Filter presses, leaf filters and diaphragm pumps.

**New York 7, N. Y.**—H. REEVE ANGEL & CO., INC., 52 Duane St. Filter paper for use in laboratory and plant.

**New York 16, N. Y.**—JOHNS-MANVILLE, 22 E. 40th St. Celite (diatomaceous earth). Filter aids.

**New York 38, N. Y.**—L. A. SALOMON & BRO., 216 Pearl St. Bleaching agents, filter aids.

**New York 19, N. Y.**—FOSTER WHEELER CORP., 666 5th Ave.

**Cincinnati 12, Ohio** — OLSON FILTRATION ENGINEERS, div. American Laundry Machinery Co., 5024 Section Ave.

**Cleveland 14, Ohio** — FILTER FABRICS INC., 1520 E. 17th St. Filter cloths for plate and frame presses. Filter blankets. Filter bags for solvent extraction process. Gauze and straining materials. Filter papers and discs.

**Filtertown, Mt. Holly Springs, Pa.** — THE EATON-DIKEMAN CO. Manufacturer of filter papers.

**Oreland, Pa.** — ACME COPPERSMITHING & MACHINE CO. Air filters.

**Pittsburgh, Pa.** — BLAW-KNOX CO., chemical plants div. Also Chicago 1, Ill. Bleaching and filtering.

## CATALYSTS

**Los Angeles 23, Calif.**—FILTROL CORP., 3250 E. Washington Blvd. Plants at Vernon, Calif.; Jackson, Miss.; Salt Lake City, Utah. Cracking catalysts. Powder and pelleted alumina for catalyst base.

**New York, N. Y.**—E. F. DREW & CO., INC., 15 E. 26th St. Plant at Boonton, N. J.

**New York 38, N. Y.**—L. A. SALOMON & BRO., 216 Pearl St. Alkylation, splitting, reforming, and dehydrating catalysts in powder and pellets. Activated carbon.

**Cleveland 6, Ohio** — HARSHAW CHEMICAL CO., 1945 E. 97th St.

**Chattanooga, Tenn.** — RANEY CATALYSTS CO., 1322 Hamilton National Bank Bldg.

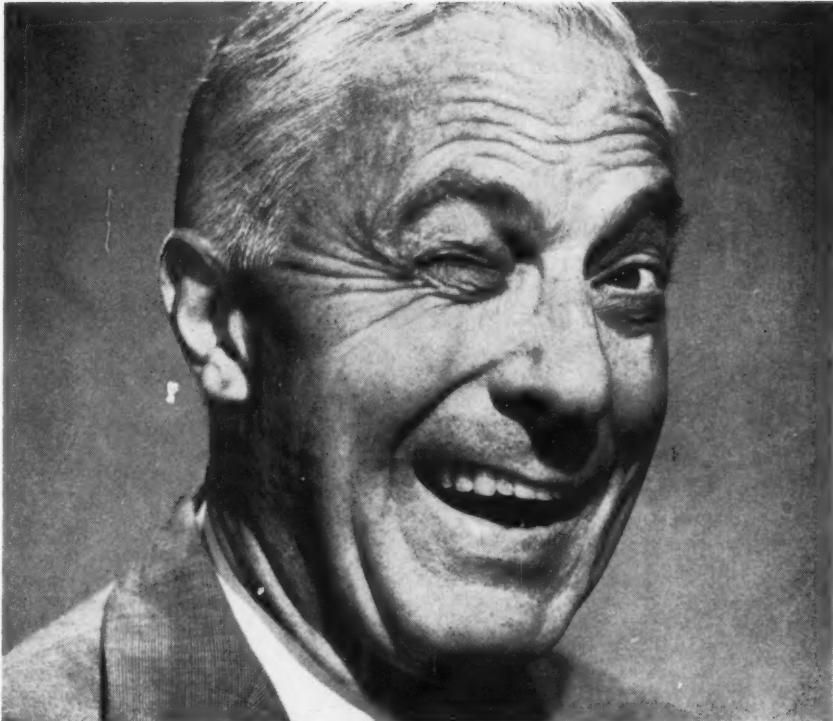
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**Atlanta, Ga.** — **DAVIDSON-KENNEDY CO.**, 1090 Jefferson St. N. W., P. O. Box 2427. Also P. O. Box 189, Chicago Heights, Ill. Solvent extraction plants complete. Engineers and constructors.

**Chicago 4, Ill.** — **ENGINEERING MANAGEMENT, INC.**, 1124 Board of Trade Bldg. Solvent extraction, oil refining, bleaching, hydrogenation, deodorization, degumming and lecithin drying, fat splitting and fatty acid distillation.

**Chicago 15, Ill.** — **WURSTER & SANGER, INC.**, 1337 E. 52nd St. Designs and constructs continuous solvent extraction, degumming, neutralization, bleaching, hydrogenation, deodorization, shortening, margarine, fatty acid distillation, fat splitting, soap and glycerine equipment.

**Chicago, Heights, Ill.** — **DAVIDSON-KENNEDY ASSOCIATES CO.**, 2719 Chicago Rd., P. O. Box 189. Also at 1090 Jefferson St., P. O. Box 2427, Atlanta, Ga. Surveys, complete plant design, process equipment, and plant construction.

**Louisville 1, Ky.** — **GIRDLER PROCESS EQUIPMENT DIV.** Complete oil processing plants.

**Minneapolis, Minn.** — **MIAG NORTHAMERICA, INC.**, 1616 S. 8th St. Complete vegetable oil processing plants. Representative: O. J. Hein, 3054 Indianapolis Ave., Columbus, Ohio.

**Cleveland 2, Ohio** — **V. D. ANDERSON CO.**, 1990 W. 96th St. Designer and fabricator of complete petroleum and non-flammable type solvent extraction plants and equipment.

**Pittsburgh, Pa.** — **BLAW-KNOX CO.**, chemical plants div. Also Chicago 1, Ill. Complete process plants for the fatty oil industry.

**Hamburg 13, Germany** — **EXTRAKTIONSTECHNIK Heinrich Meyer**, Werderstrasse 29. Designs and constructs solvent extraction plants, desolventizer toaster, continuous screw presses, roller mills. All apparatus for degumming, neutralization, bleaching, hydrogenation, deodorization, recovery; all kinds of spare parts for oil mill industry.

## CONTINUOUS COUNTER-CURRENT SOLVENT EXTRACTORS

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**Chicago Heights, Ill.** — **DAVIDSON-KENNEDY ASSOCIATES CO.**, 2719 Chicago Rd., P. O. Box 189. Complete continuous solvent extraction plants, extractors, desolventizer, and distillation equipment.

**Minneapolis 13, Minn.** — **CROWN IRON WORKS CO.**, 1229 Tyler St. N.E. Complete continuous-solvent extraction plants.

**Haddonfield, N. J.** — **STOCKDALE ENGINEERING CO.**, P. O. Box 144. Affiliate of Extraction Continue De Smet, Antwerp, Belgium. Distributor of "De Smet" continuous solvent extraction plants and auxiliary equipment.

**West Orange, N. J.** — **YORK PROCESS EQUIPMENT CORP.**, 6 Central Ave. Liquid-liquid extraction equipment for refining processes.

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**Piqua, Ohio** — **FRENCH OIL MILL MACHINERY CO.** Vertical, rectangular, and horizontal basket extractors; solvent toasters.

**Glen Riddle, Pa.** — **PITTOCK & ASSOCIATES**. Used solvent extraction plants, Anderson and others.

**Pittsburgh, Pa.** — **BLAW-KNOX CO.**, P. O. Box 1198. Also Chicago 1, Ill.

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**Philadelphia 40, Pa.** — **SHARPLES CORP.**, 2300 Westmoreland St.

**Pittsburgh, Pa.** — **BLAW-KNOX CO.**, chemical plants div. Also Chicago 1, Ill.

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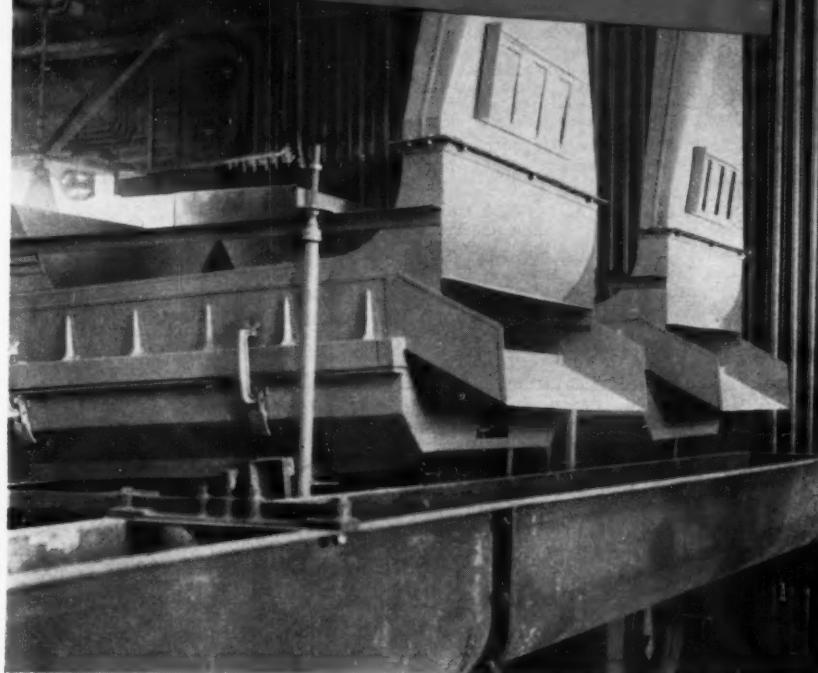
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**Chicago Heights, Ill.**—DAVIDSON-KENNEDY ASSOCIATES CO., 2719 Chicago Rd., P. O. Box 189. Continuous high vacuum deodorization plants.

**Louisville 1, Ky.**—GIRDLER PROCESS EQUIPMENT DIV. Continuous and semi-continuous deodorization plants.

**New York 38, N. Y.**—L. A. SALOMON & BRO., 216 Pearl St. Activated carbon, bleaching clays.

**New York 17, N. Y.**—WEST VIRGINIA PULP AND PAPER CO., industrial chemical sales div., offices at 35 E. Wacker Drive, Chicago 1, Ill.; Philadelphia National Bank Bldg., Philadelphia 7, Pa.; 2775 S. Moreland Blvd., Cleveland 20, Ohio. Activated carbon, refined and crude tall oils.

**New York 19, N. Y.**—FOSTER WHEELER CORP., 666 5th Ave. Batch and continuous installations. Dowtherm systems.

**Oreland, Pa.**—ACME COPPERSMITHING & MACHINE CO. Deodorizers.

**Pittsburgh, Pa.**—BLAW-KNOX CO., chemical plants div. Also Chicago 1, Ill. Batch installations. Dowtherm heating systems.

**Warren, Pa.**—STRUTHERS WELLS CORP. Batch and continuous deodorizers. Heaters and coolers.

## FRACTIONATION

**Chicago, Ill.**—ARMOUR CHEMICAL DIVISION, 1355 W. 31st St. Plant also at 47th St. and Lawndale Ave., McCook, Ill.

## HYDRAULIC PRESSING EQUIPMENT

**Piqua, Ohio**—FRENCH OIL MILL MACHINERY CO.

## HYDROGENATION

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**New York 19, N. Y.**—FOSTER WHEELER CORP., 666 5th Ave. Hydrogenators.

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**Warren, Pa.**—STRUTHERS WELLS CORP. Hydrogenators.

## MARGARINE

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**Louisville 1, Ky.**—GIRDLER PROCESS EQUIPMENT DIV. Complete margarine plants. Margarine manufacturing apparatus.

**Saginaw, Mich.**—BAKER-PERKINS, INC., chemical machinery div. Mixing equipment, centrifugals.

**Pittsburgh, Pa.**—BLAW-KNOX CO., chemical plants div. Also Chicago 1, Ill.



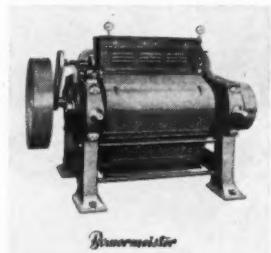
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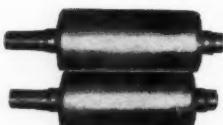
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**Santa Rosa, Calif.**—RIETZ MFG. CO., 150 Todd Rd. Branch at West Chester, Pa. Manufacturer of equipment for food and chemical process industries. "Rietz" Disintegrators, Prebreakers and Thermascrews.

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**Atlanta, Ga.**—DAVIDSON-KENNEDY CO., 1090 Jefferson St. N. W., P. O. Box 2427. Also P. O. Box 189, Chicago Heights, Ill. Extractors, heat exchangers, condensers.

**Chicago 50, Ill.**—B. F. GUMP CO., 1309 S. Cicero Ave. Feeders.

**Decatur, Ill.**—LEADER IRON WORKS, INC., 2158 N. Jasper St. Affiliate of Standard Steel Corp., Los Angeles, Calif. Jacketed kettles, processing columns and vessels, condensers, heat exchangers, rotary driers and coolers.

**East Moline, Ill.**—NIAGARA FILTERS DIV., American Machine & Metals, Inc.

**East Moline, Ill.**—TOLHURST CENTRIFUGALS DIV., American Machine & Metals, Inc. Centrifugal extractors.

**Skokie 60, Ill.**—POWERS REGULATOR CO., 3400 Oakton St. Temperature and humidity control systems for processing and space conditioning.

**Cedar Rapids, Iowa**—**TOKHEIM CO.**, 1123 C Ave. NW, P. O. Box 67. Manufactures flame arresters.

**Minneapolis 13, Minn.**—DAY CO., 810 3rd Ave. N.E. Soybean oil meal coolers.

**Minneapolis, Minn.**—MIAG NORTHAMERICA, INC., 1616 S. 8th St. Basket band solvent extractors, expellers, redler conveyors, flakers and spare rolls for all types of flakers. Representative: O. J. Hein, 3054 Indianola Ave., Columbus, Ohio.

**Bellefonte 9, N. J.**—WALLACE & TIERNAN INC., 25 Main St. "Merchen" belt-type gravi-metric scale feeders and meters for blending, inventory records, process yield records, quality control, bulk loading or unloading. Feeders adaptable for either continuous or batch operations.

**West Orange, N. J.**—OTTO H. YORK CO., INC., 6 Central Ave. "Yorkmesh Demisters," entrainment separator and mist eliminator wire mesh pads for installation in distillation equipment; evaporators, scrubbers, knockout drums and steam drums.

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**Cleveland 2, Ohio**—**V. D. ANDERSON CO.**, 1990 W. 96th St. Coolers, screening tanks, flakers, steam traps, atmospheric and pressure meal toasters, distillation systems, filters, steam, gas, air and vapor purifiers, special fabricated equipment.

**Glen Riddle, Pa.**—PITTOCK & ASSOCIATES. Miscellaneous used and rebuilt oil mill equipment, including meal toasters, coolers, filter presses, oil screening tanks, grinders, scales, elevators and screw conveyors.

**Homer City, Pa.**—SYNTRON CO., 466 Lexington. Also plant at Blairstown, Pa. Electric vibrators for bins, hoppers, and chutes; vibratory feeders for controlling the flow of materials.

**Mertztown, Pa.**—ATLAS MINERAL PRODUCTS CO. Corrosion-proof coatings, linings, cements and jointing materials resistant to soybean oil, solvents, alkalies and acids employed in the soybean industry.

**Orlando, Pa.**—ACME COPPERSMITHING & MANCHINE CO. Distillation equipment. Drying ovens (with solvent recovery apparatus).

**Philadelphia, Pa.**—MINNEAPOLIS HONEYWELL REGULATOR CO., Industrial Div., Wayne and Windrim Ave. Design and fabrication of automatic control instruments and complete process control systems.

**Memphis, Tenn.**—WILCO MACHINE WORKS, P. O. Box 3722, Municipal Airport. Manufactures Wilco-Stansbury Steam Saver—a closed condensate return system.

**Milwaukee, Wis.**—ALLIS CHALMERS MFG. CO., gen. machinery div. Motors, pumps, controls.

## NEUTRALIZATION

**Chicago 15, Ill.**—WURSTER & SANGER, INC., 1337 E. 52nd St. Kettle and continuous refining plants.

**Poughkeepsie, N. Y.**—DE LAVAL SEPARATOR CO. Offices also at 5724 N. Pulaski, Chicago 46, Ill., and 201 E. Millbrae, Millbrae, Calif. Continuous refining.

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**Pittsburgh, Pa.**—BLAW-KNOX CO., chemical plants div. Also Chicago 1, Ill.

## **SHORTENING**

**Chicago 15, Ill.**—WURSTER & SANGER, INC., 1337 E. 52nd St. Complete blending, chilling and plasticizing plants.

**Louisville 1, Ky.**—GIRDLER PROCESS EQUIPMENT DIV. Chilling and plasticizing apparatus.

**Pittsburgh, Pa.**—BLAW-KNOX CO., chemical plants div. Also Chicago 1, Ill.

## **SOLVENT RECOVERY**

**New York 38, N. Y.**—L. A. SALOMON & BRO., 216 Pearl St. Activated carbon for recovery in solvent extraction plants.

**Columbus 19, Ohio.**—BARNEBEY-CHEENEY CO., Cassady at 8th. Packaged solvent recovery equipment for recovering solvents from vent gases of solvent extraction plants.

**Warren, Pa.**—STRUTHERS WELLS CORP. Solvent recovery.

**Milwaukee, Wis.**—ALLIS-CHALMERS MFG. CO., gen. machinery div. Solvent removal driers. Contact columns.

## **SOLVENTS**

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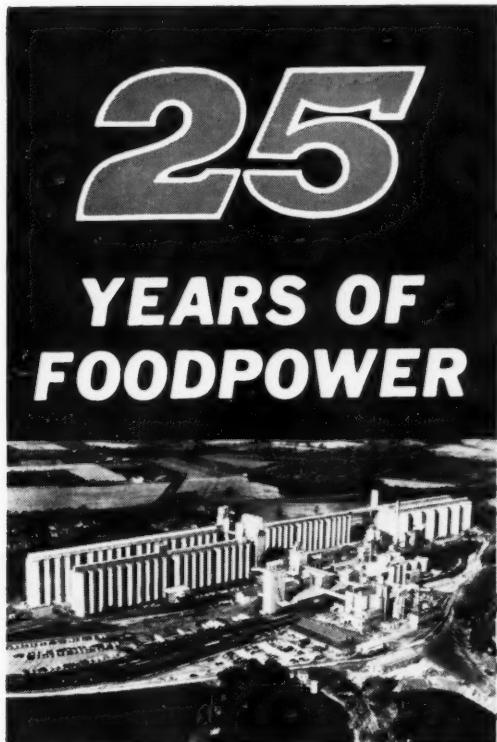
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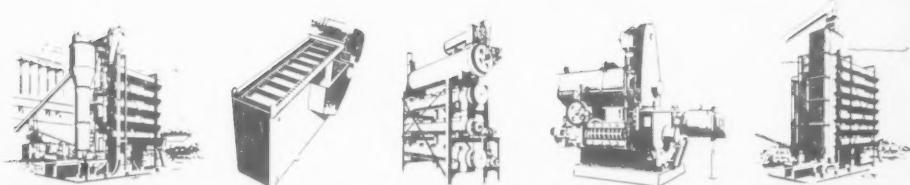
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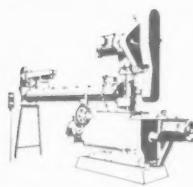
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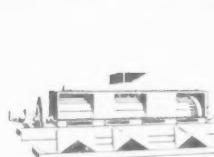
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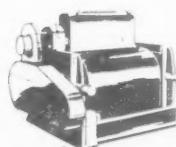
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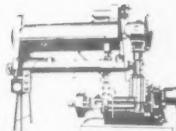
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